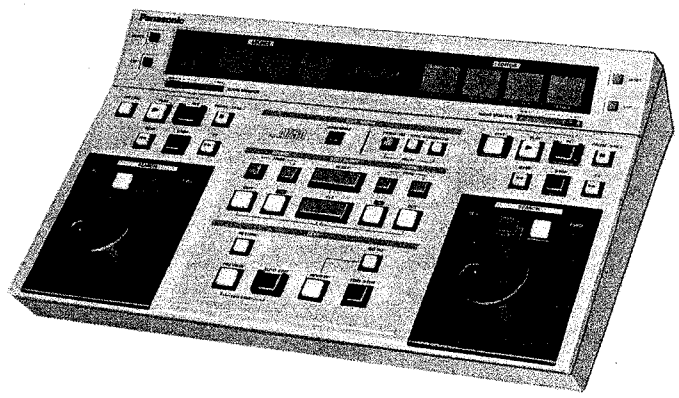
ORDER NO. VRD8809M606

Service Manual

Editing Controller

Operating Instructions
Circuit Descriptions
Electrical Adjustment Procedures
Block Diagram
Schematic Diagrams
Circuit Board Diagrams
Exploded Views
Replacement Parts Lists

AG-A750



SPECIFICATIONS

ITEM	SPECIFICATIONS
Power	Source: DC 12V(supplied from video recorder)
	Consumption(approx.): 6W
Controls	Source-Unit Side: ON Line
	Editor-Unit Side: Edit
	Source-Unit/Editor-Unit: Record, Fast Forward, Play, Rewind, Stop, Pause/Still, Search(SHUTTLE, JOG)
Editing Controls	Editing Modes: Assemble, Insert(Audio CH1 CH2; Video)
	Edit Point Trimming: Set, In/Out/Trim−/Trim+ (source-unit/editor-unit), Reset
	Editing Controls: Preview, Auto Edit, Edit Stop, Return, Go-To, Review
Counter Display	Time Indication: Max. ±9hr. 59min. 59sec. 24 frames (source-unit/editor-unit)
	Lap Time Indication: Max. 9hr. 59min. 59sec. 24 frames (source-unit/editor unit)
Connectors	Remote Control: 34-pin Remote Control Cable Connector (source-unit/editor-unit)
	Additional Source: 20-pin ON-Line Cable Connector
	ON Line Output: Phono Jack, Open Collector output, OFF; less than DC12V, ON; less than 10mA

ITEM	SPECIFICATIONS
Connectors	Audio Monitor Input: Phono Jack, −20dB, 47kΩ
	Audio Monitor Output: Phono Jack, −20dB, 4.7kΩ
	Trigger Output Terminal: Phono Jack, Open Collector output, OFF; less than DC12V, ON; less than 10mA Pulse width about 1sec
Compatible VTR Units	Basic System: AG-7500 Limited System: AG-6200, AG-6500, NV-8500 NV-9600, NV-9240
Connection Capability (number of units)	Up to 3 Source Units (for 2 or 3 units, Remote Search Controller NV-A505[option] and Multi-Source Switcher NV-J500[option] is connected) 1 Editor Unit
Editing Precision	Refer to table below:

Source/Editor	AG-7500
Editing Precision	±2 frames

Preroll Time	3, 5, 7sec(selectable)
Operating Temperature	41°F~104°F(5℃~40℃)
Operating Humidity	35%~80%
Dimensions	15-3/8″(W)×3-5/8″(H)×9-5/8″(D) 390(W)×90(H)×243(D)mm
Weight(approx.)	5.1lbs. (2.3kg)
Accessories Supplied	2pcs. 34-pin Remote Control Cable

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

INTRODUCTION

This Service Manual contains all the technical information which allows service personnels to understand and service the Panasonic Editing Controller model AG-A750.
This model is based on the AG-A650. Therefore, please refer to AG-A650 Service Manual Order No. VRD8701204.

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WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: TO PREVENT FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

is the Safety Information.

FEATURES

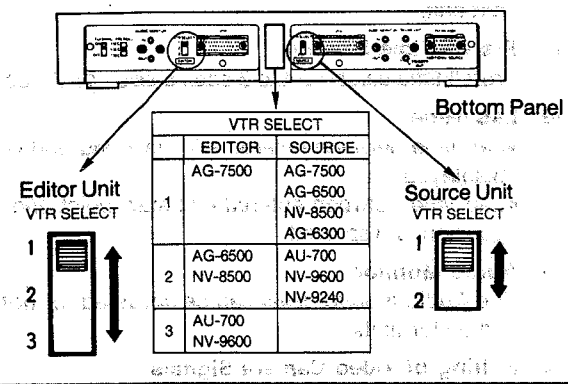
1. **Simple Alignment of Edit Points**
   Edit points can be easily located by using the JOG or SHUTTLE while viewing the image on a TV Monitor. The tape can be advanced in the forward (FWD) direction or in the reverse (REV) direction and the playback speed can be set across a range extending from still pictures to about 10 times the ordinary playback speed.
2. **Trimming Function**
   The edit points can be revised directly by the trimming function without having to re-enter the edit points after they have been entered.
3. **Ease of Operation**
   The feather-touch control buttons can be operated easily thanks to the logic circuit operation.
4. **Sound-Based Error Indication**
   An electronic "beep" is heard whenever a mistake in the editing procedure is made.
5. **Editing Operation Indicator**
   Editing operation is indicated by flashing lamps.
6. **LED Frame-Counter Display**
   The control signals entered on the tape are read out in hour/minute/second/frame units and displayed on the source/editor counter display.
7. **Free Selection of Editing Modes**
   Insert and assemble-editing as well as two audio channels and a video channel, which can be combined for insert editing, offer a variety of editing capabilities.
8. **Preview Editing**
   A rehearsal of the intended edit point before actual recording, allows accurate judgement of the finished effect prior to the performance of the actual editing.
9. **Trigger Output Terminal**
   When starting the line input signals of a tape recorder or audio turntable, the trigger signal can be output at this jack 5 seconds before the edit start point and the line input started automatically.
10. **Editing Review**
    A review of the edited portion from the preroll point to the overlap point after the edit is possible using the REVIEW mode. Following the review, the tape automatically returns to the final edit point and remains ready for the next edit.
11. **Preroll Time Setting**
    Preroll time can be set to 3 sec., 5 sec., or 7 sec.
12. **Lap Time**
    - Lap time between entered edit start and end portions is displayed.
    - Lap time between entered edit start point and the tape position is displayed.
13. **Audio Monitor**
    The Audio monitor level can be adjusted for both souce and editor units.
14. **Editing of Video Camera Signals**
    Wide varieties of editing functions are available if a video camera is connected.
15. **Connection Systems**
    In addition to connection with the basic system (AG-7500), hook-up is also possible with VHS standard video recorders (AG-6500, AG-6200*, NV-8500) or 3/4-inch video recorders (NV-9600 or NV-9240*).
    * The AG-6200 and NV-9240 are the source (playback) video recorders.
16. **ON-Line Connection**
    Up to three playback units can be connected simultaneously using the NV-A505 Remote Search Controller (option) and NV-J500 Multi-Source Switcher (option).

Note the following information prior to using the Editing controller AG-A750 in connection with a video cassette recorder.

- When editing with the AG-7500 or AG-6500, set the Control Switch on the AG-7500 or AG-6500 to "REMOTE".
  If the switch is set to "LOCAL", operations cannot be controlled by the Editing Controller AG-A750 side.
- When editing with a Video recorder other than the AG-7500 or AG-6500, do not attempt operation at the video recorder side when operating the editing controller.
- Use this unit horizontally and do not place anything on the top panel.
- Do not spray any cleaner or wax directly on the unit.
- If the power switch of the video cassette recorder is accidentally turned OFF or if there has been a power failure, begin the editing from the start point.
- If any liquid spills inside the controller, have the controller examined for possible damage.

OPERATING HINTS

VTR Selector Switch

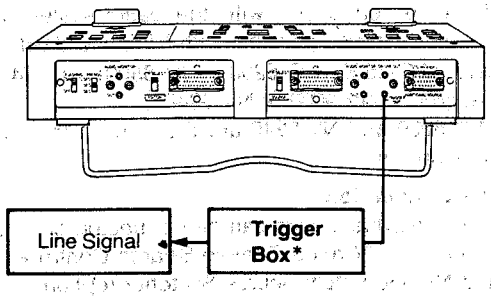


VTR SELECT		
	EDITOR	SOURCE
1	AG-7500	AG-7500 AG-6500 NV-8500 AG-6300
2	AG-6500 NV-8500	AU-700 NV-9600 NV-9240
3	AU-700 NV-9600	

The 7 models shown in the table on the left can be used as the source unit.
The 5 models in the same table can be used as editor unit. (The AG-6300, NV-9240 cannot be used as the editor.)

* Be sure that the VTR SELECT switch is in the correct position. If the VTR SELECT switch on the editor side is in the "1" position when using a VTR other than the AG-7500, about 8 frames may be misaligned at the edit points.

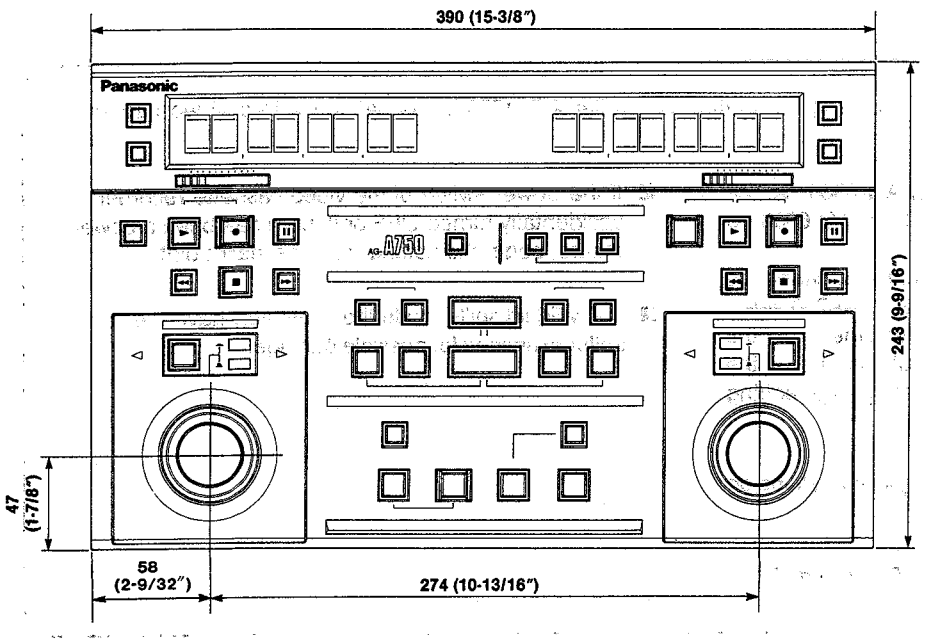
Trigger Output Terminal

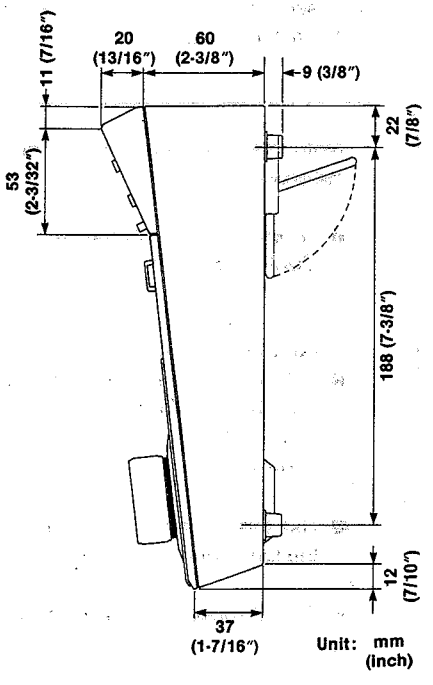


When editing a tape with external line sources such as a video camera or audio turntable, this terminal provides a trigger pulse (coincident with the edit start point) which may be used to control or start the external line source. The trigger pulse is a negative pulse of 1 second duration.

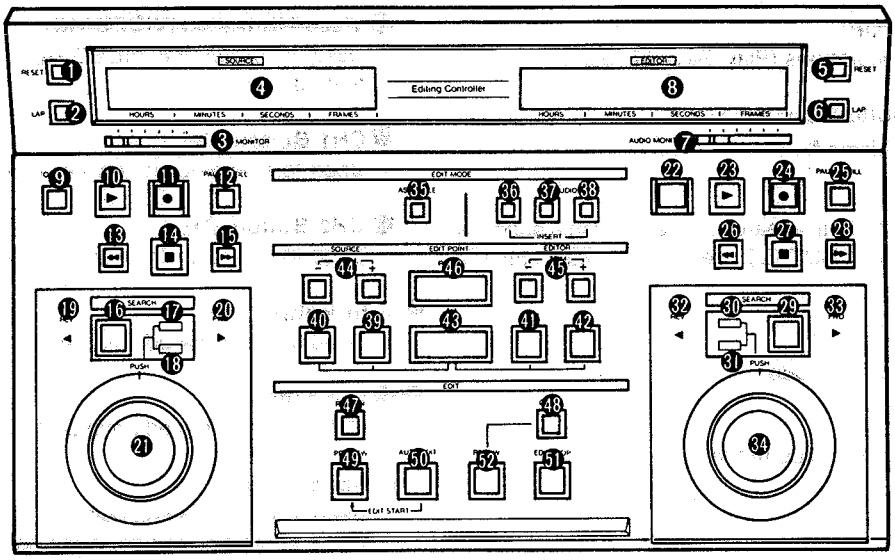
* A trigger box is the external source's control switch. It operates the "start control" of the external source. Note: Trigger box is not available from Panasonic.

DIMENSIONS





CONTROLS AND THEIR FUNCTIONS



Counter

❶❺ RESET Button
Used to reset the counter display to 0.

❷❻ LAP Button
- Before editing, the following displays are given in the counter while this button is pressed.
  1. Lap time between entered edit start and edit end points.
  2. Lap time between entered edit start point and the tape position.
- During editing, lap time between edit start and the tape position is given in the counter with this button pressed. (It is reset with the button pressed again.) At the edit end point, the counter is automatically shifted to the present tape position.

❸❼ Audio Monitor Control
Used to control the audio volume input to the Audio Monitor Jack.

❹❽ Counter Display
The following information is given in the counter display.
- Tape position from reset point.
- Lap time
- Edit start or end points

- When the tape is rewound past the reset point, the counter indicates a minus display.

❾ ON Line Button/Lamp
This button is not used when editing is conducted with one editor unit and one source unit (the on line lamp remains on). Press the ON Line Button to select the source unit used for editing when two or three source units have been connected and an editing system has been configured.

❿㉘ Play Button/Lamp [PLAY]
Used to play back recorded tapes.

⓫㉙ Record Button/Lamp [REC]
Video/audio recording starts when this button is pressed with the Play Button simultaneously.

⓬㉕ Pause/Still Button
The tape temporarily stops when the button is pressed during recording or playback. In playback mode, a still picture appears on the TV Monitor.
When the Pause/Still Button is pressed again, the tape will start.
- With the AG-7500 or AG-6500, when Record and Play Buttons are pressed at the same time during pause mode, the pause mode is released and the recording will start.
- With the NV-8500, AG-7500 or AG-6500, when PLAY button is pressed during Still mode, Still mode is released and playback will start.

⑬ ㉖ **Rewind Button/Lamp [REW]**
Used to rapidly rewind the tape.

⑭ ㉗ **Stop Button [STOP]**
Used to stop all operations (Play, Rew, FF, etc.).

⑮ ㉘ **Fast Forward Button/Lamp [FF]**
Used to rapidly advance the tape.

⑯ ㉙ **Search Button**
The mode is shifted to the search mode when this button is pressed. JOG and SHUTTLE are both provided for the search mode.

⑰ ㉚ **JOG Lamp**
It lights up in the JOG mode.

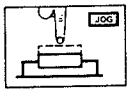
⑱ ㉛ **SHTL Lamp**
It lights up in the SHUTTLE mode.

⑲ ㉜ **REV Lamp**

⑳ ㉝ **FWD Lamp**

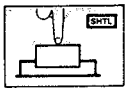
㉑ ㉞ **Search Dial**
Used to search for vital sections of the tape such as the editing points.

•JOG mode (▬)



It is set to the JOG mode when the JOG Lamp lights. Playback speed changes in forward or reverse direction in a range from still picture to normal speed according to the dial rotating speed.

•SHTL mode (▮)



It is set to the SHUTTLE mode when the SHTL Lamp lights.
Playback speed can be increased in forward or reverse direction up to nearly 10 times the normal speed according to the dial position.

- When the unit is connected to a video recorder other than AG-7500 or AG-6500, read the description of the search dial.
- The playback speed can be varied in both the forward and reverse directions.

㉒ **Edit Button**
Used for Manual Editing.

㉟ **Assemble Button/Lamp [ASSEMBLE]**
Used to select Assemble Editing.

㊱ **Video/HD Button [VIDEO/HD]**
Used to select the VIDEO/HD sound signal for insert-editing.

㊲ **CH1 Button [CH1]**
Used to select audio channel 1 for insert-editing.

㊳ **CH2 Button [CH2]**
Used to select audio channel 2 for insert-editing.

㊴ ㊶ **In Button**
Used to enter the edit start point.

㊵ ㊷ **Out Button**
Used to enter the edit end point.

㊸ **Set Button**
Used to enter the edit points.
The edit start or end point can be entered by pressing this button together with the In Button or Out Button.

㊹ ㊺ **Trim-Plus/Minus Buttons**
Used to revise the source unit's or editor unit's edit points. When the [−] or [+] Button is pushed while pressing the In or Out Button, the Counter Display will decrease or increase, respectively, by one frame each time the button is pressed.

㊻ **Reset Button**
Used when an entered edit point is to be deleted.
The edit start or end point can be deleted by pressing this button together with the In Button or Out Button.

㊼ **Return Button/Lamp**
Used to return the tape to the edit start point.

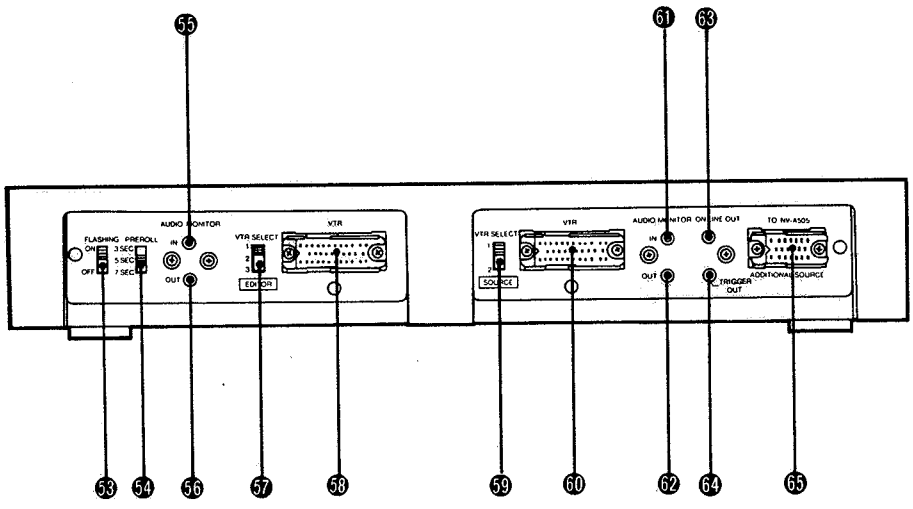
㊽ **Go To Button/Lamp**
Used to advance the tape to the edit end point.

㊾ **Preview Button/Lamp**
Used to preview an edit before the edit is made.

㊿ **Auto Edit Button/Lamp**
Used to make the actual edit. Editing starts when this button is pressed together with Preview Button.

(51) **Edit Stop Button**
Used to end an edit or to stop an edit. The point at which this button is pressed becomes the edit end point, and editing stops.

(52) **Review Button/Lamp**
Used after the edit has been finished to confirm that the edited portion has been recorded as desired.



53 Flashing Switch
Set it to "ON" when you want the order of editing operation to be indicated by the flashing lamp.
Set it to "OFF" when indication by flashing lamp is not intended.

54 Preroll Select Switch
Used to select the preroll time for source and editor units. It can be set to 3 sec., 5 sec. or 7 sec.

Note:
When performing the colour framing edit, set the Preroll Select Switch to 7 SEC.
This note applies to the AG-7500, 6500 and NV-8500. In the case of the NV-8500, the unit is used as a source VTR and is only effective when LINE-connected.

55 61 Audio Monitor Input Jack (Phono jack)
Connect to the Audio Monitor Output Jack of the video recorder when you want to control the sound volume of the TV monitor by this unit.

56 62 Audio Monitor Output Jack (Phono jack)
Connect to the AUDIO MONITOR IN terminal of a TV monitor.

57 59 VTR Selector Switch
Set this switch in accordance with the type of video cassette recorder used.

58 60 VTR Connector
Connect to the Remote Control Connector using a 34-pin remote-control connection cable.

63 ON Line Output Jack
Connect this to the ON Line Input jack on the optional NV-J500 multi-source switcher when connecting two or three source units to compose an editing system.

64 Trigger Output Terminal [TRIGGER OUT]
Used for starting the relay signal or tape recorder line signal automatically. Upon completion of preroll, a negative signal is output for about 1 second.

65 Additional Source Connector
Connect this to the "TO NV-A500/NV-A505" Connector on the NV-A505 Remote Search Controller when using this optional controller and connecting a source unit.

CIRCUIT DESCRIPTION

The difference of the AG-A750 from the AG-A650, is that Trigger Output Terminal and 3 position VTR Selector Switch has been added.

Selector Switches on the Rear Panel

This model has VTR select switches for editor VTR and source VTR, and flashing switch and preroll switch (3 sec. 5 sec. or 7 sec.) on the rear panel.
The function of switches are as follows.

a. VTR Select Switch
Set this switches accordance with the type of VTR.

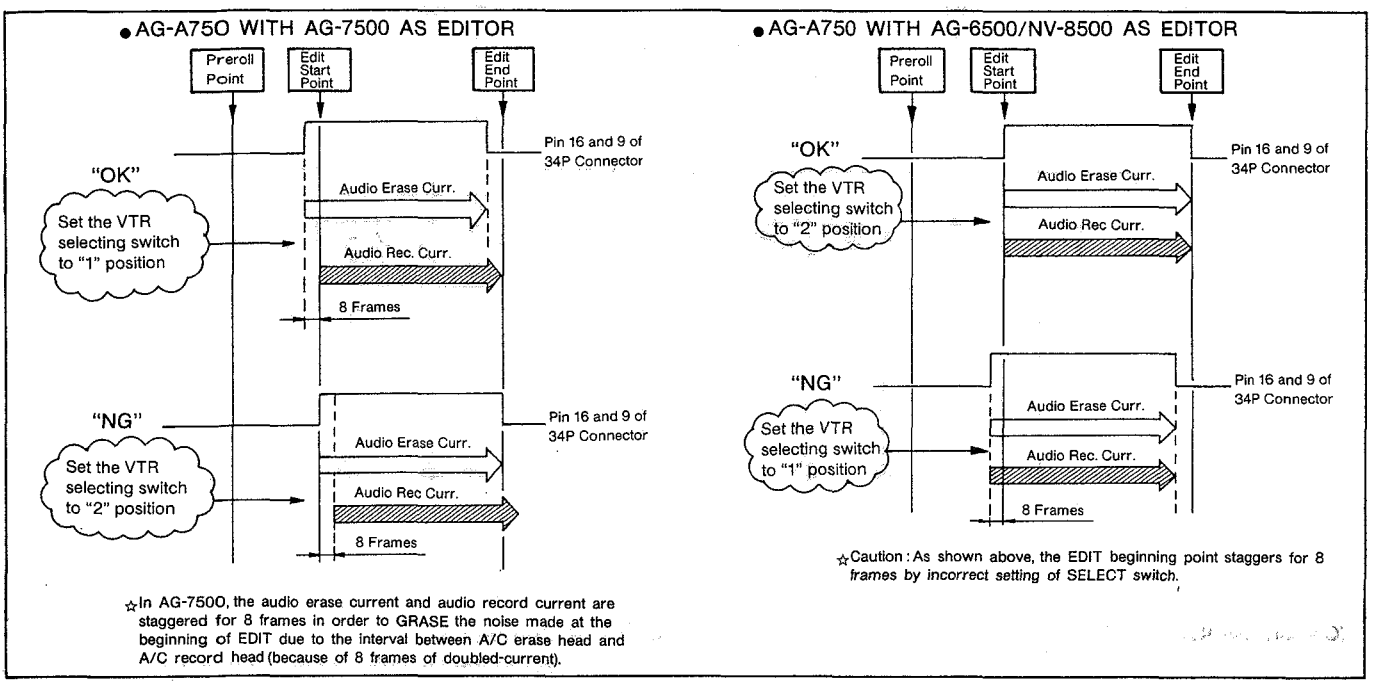

●AG-A750 WITH AG-7500 AS EDITOR
Preroll Point
Edit Start Point
Edit End Point
"OK"
Set the VTR selecting switch to "1" position
Audio Erase Curr.
Audio Rec. Curr.
8 Frames
Pin 16 and 9 of 34P Connector
"NG"
Set the VTR selecting switch to "2" position
Audio Erase Curr.
Audio Rec Curr.
8 Frames
Pin 16 and 9 of 34P Connector
☆In AG-7500, the audio erase current and audio record current are staggered for 8 frames in order to GRASE the noise made at the beginning of EDIT due to the interval between A/C erase head and A/C record head (because of 8 frames of doubled-current).
●AG-A750 WITH AG-6500/NV-8500 AS EDITOR
Preroll Point
Edit Start Point
Edit End Point
"OK"
Set the VTR selecting switch to "2" position
Audio Erase Curr.
Audio Rec Curr.
Pin 16 and 9 of 34P Connector
"NG"
Set the VTR selecting switch to "1" position
Audio Erase Curr.
Audio Rec. Curr.
8 Frames
Pin 16 and 9 of 34P Connector
☆Caution : As shown above, the EDIT beginning point staggers for 8 frames by incorrect setting of SELECT switch.

Figure 1 Timing Chart

b. Flashing Switch
Turn the switch ON when it is desired to have the order of editing operations indicated by flashing lamp.

c. Preroll
Used to select the preroll time for source and editor unit.

All of the switches are either active low or high as shown in Figure 2.

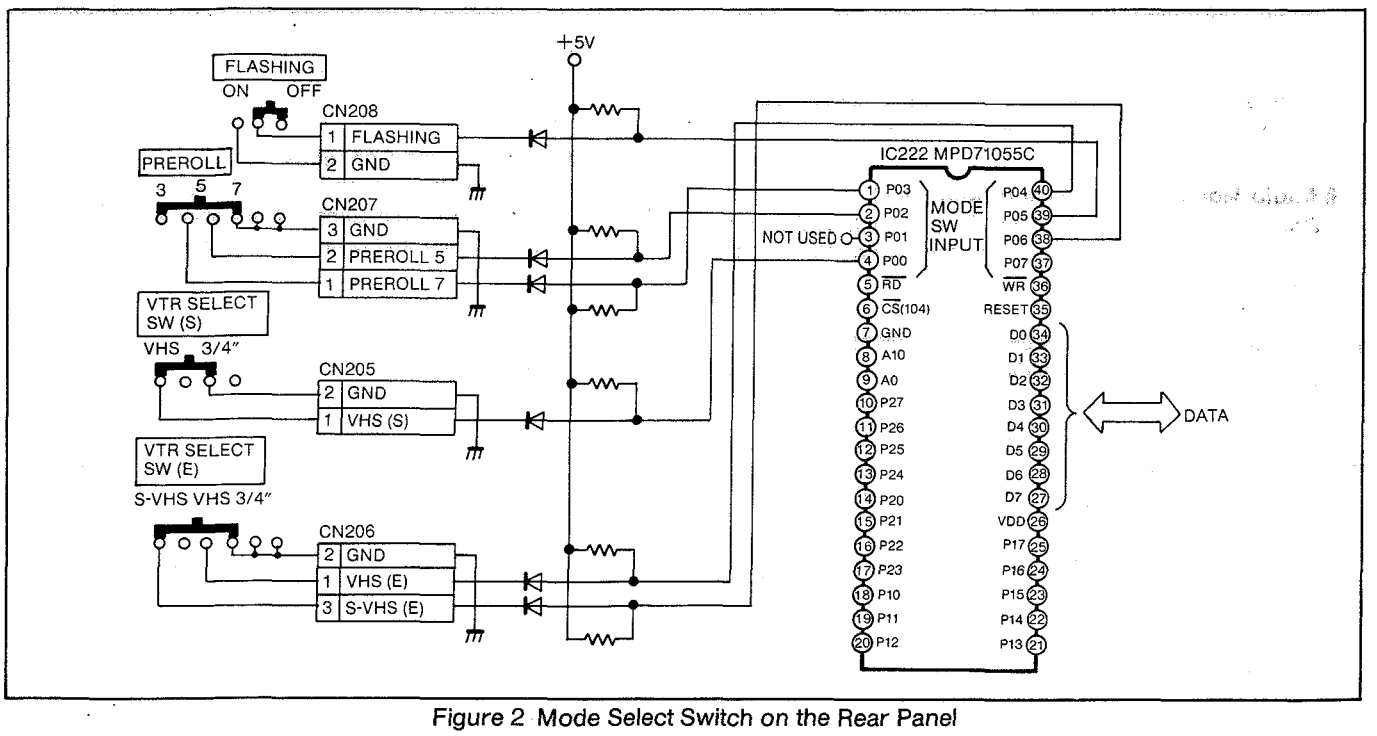


Figure 2 Mode Select Switch on the Rear Panel

DISASSEMBLY METHOD

1. Loosen the 7 screws and remove the bottom case.

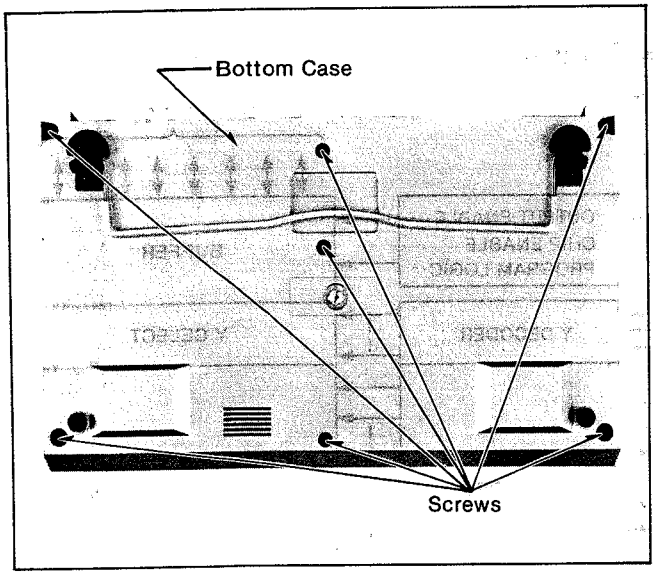


Figure 1

2. Loosen the 6 screws and disconnect the 2 Conectors (CN101, CN108 on the Key Board C.B.A.). Remove the MAIN C.B.A. together with the Rear Panel.

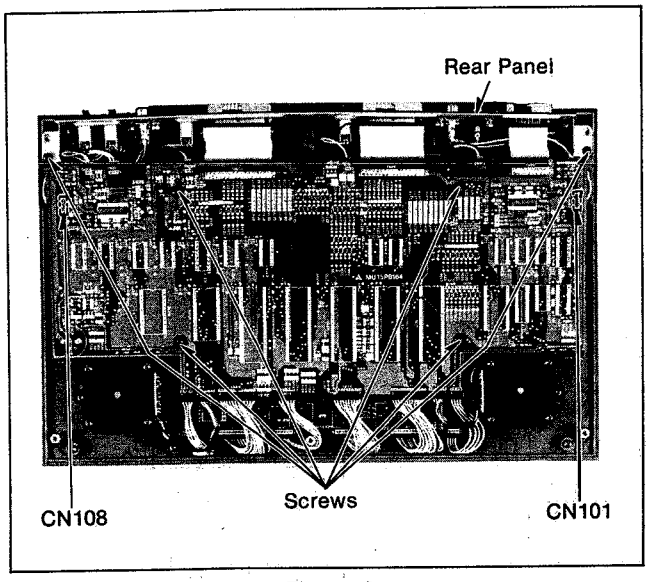


Figure 2

3. Open the MAIN C.B.A. and the Rear Panel.

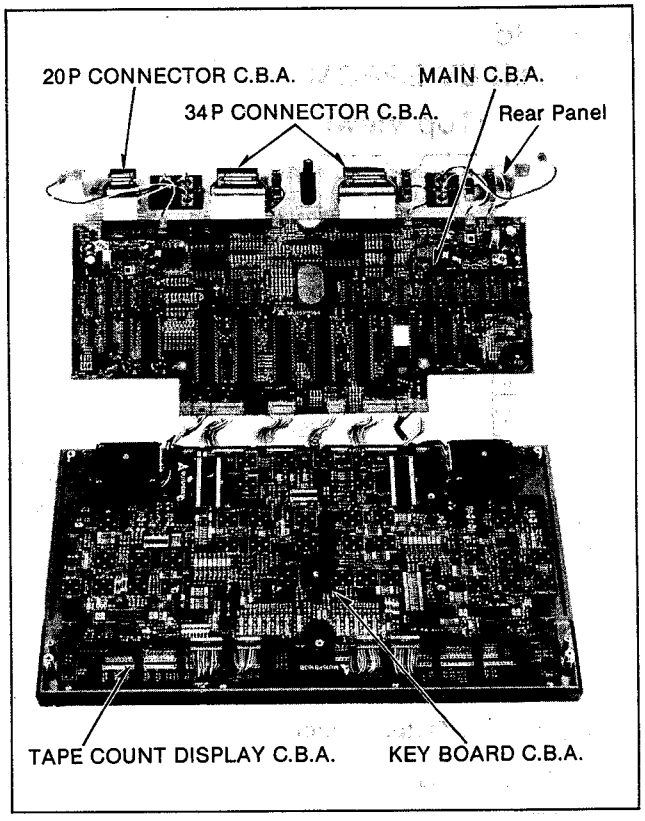


Figure 3

ELECTRICAL ADJUSTMENT PROCEDURE

This section provides the electrical adjustment procedure which may be requred for the main circuit.

1. TEST EQUIPMENT

D. V. M. (Digital Volt Meter)
Voltage Range: 0.001~10V

2. ADJUSTMENT PROCEDURE

POWER SUPPLY VOLTAGE ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN D204 AND D214	VR201 (SOURCE) VR202 (EDITOR)	STOP	REFER BELOW
TAPE	**M. EQ.**	**SPEC.**	
	D.V.M.	5±0.05 V	

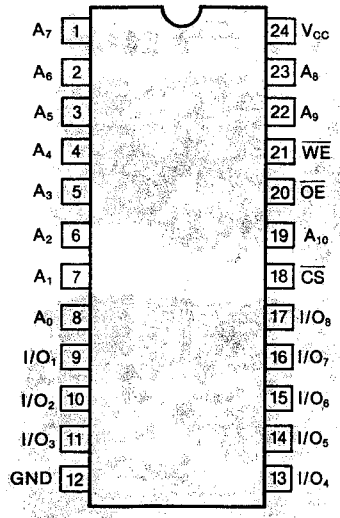
1. Supply 12V from a VCR (AG-7500 or AG-6500) to the source side of 34 pin connector on the edditing controller with 34 pin connection cable.
2. Connect the D.V.M. between D204 and D214.
3. Adjust VR201 so that the voltage becomes 5±0.05 V.
4. Change the 34 pin connector from the source side to the editor side.
5. Adjust VR202 so that the voltage becomes 5±0.05 V.

IC INFORMATION

VSI0236

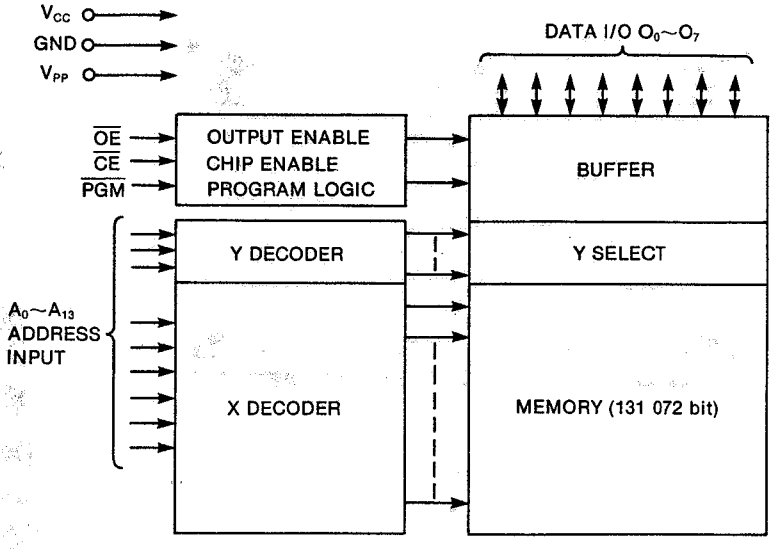
131072 bit UV EPROM

(Top View)



- ○ $A_0 \sim A_{13}$: Address
- ○ $\overline{OE}$: Output Enable
- ○ $O_0 \sim O_7$: Data Input/Output
- ○ $\overline{CE}$: Chip Enable
- ○ $\overline{PGM}$: Program
- ○ V_{PP}

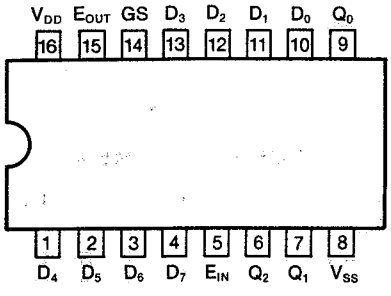
Block Diagram



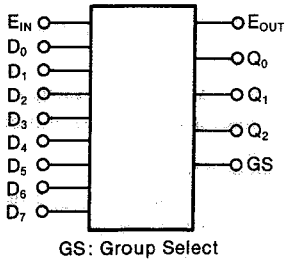
µPD4532BC

8 bit Priority Encoder

(Top View)



Block Diagram



GS: Group Select

Truth Table

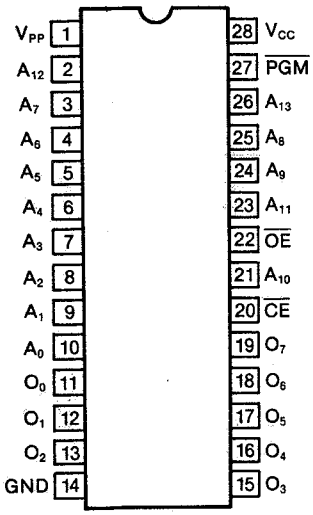
INPUT									OUTPUT				
E_{IN}	D_7	D_6	D_5	D_4	D_3	D_2	D_1	D_0	GS	Q_2	Q_1	Q_0	E_{OUT}
L	×	×	×	×	×	×	×	×	L	L	L	L	L
H	L	L	L	L	L	L	L	L	L	L	L	L	H
H	H	×	×	×	×	×	×	×	H	H	H	H	L
H	L	H	×	×	×	×	×	×	H	H	H	L	L
H	L	L	H	×	×	×	×	×	H	H	L	H	L
H	L	L	L	H	×	×	×	×	H	H	L	L	L
H	L	L	L	L	H	×	×	×	H	L	H	H	L
H	L	L	L	L	L	H	×	×	H	L	H	L	L
H	L	L	L	L	L	L	H	×	H	L	L	H	L
H	L	L	L	L	L	L	L	H	H	L	L	L	L

H: Hi Level L: Low Level ×: H or L

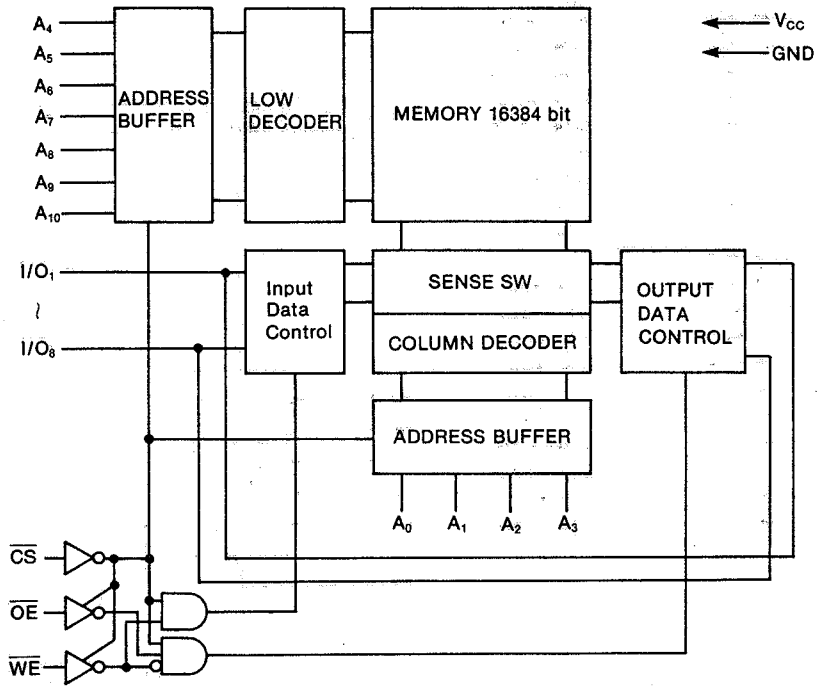
μPD446C

16384 bit Static CMOS RAM

(Top View)



Block Diagram



A_0~A_{10} : Address Input

I/O_1~I/O_8 : Data Input/Output

$\overline{CS}$: Chip Select Input

$\overline{WE}$: Write Enable Input

$\overline{OE}$: Output Enable Input

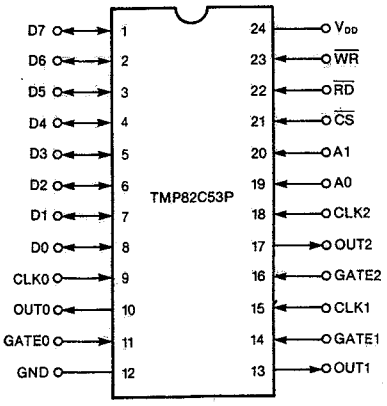
V_{CC} : +5V

GND : Ground

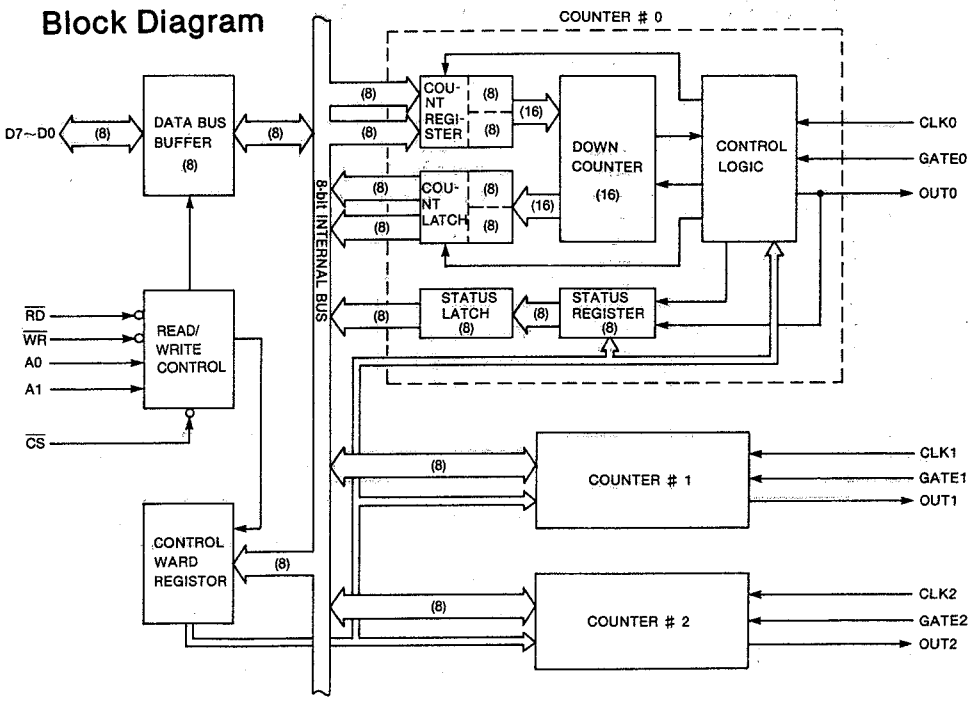
TMP82C53P

Programmable Timer Counter

(Top View)



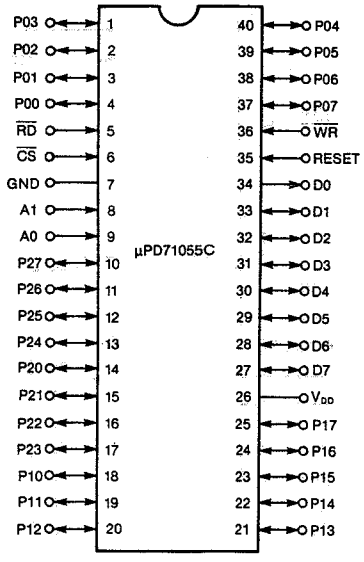
Block Diagram



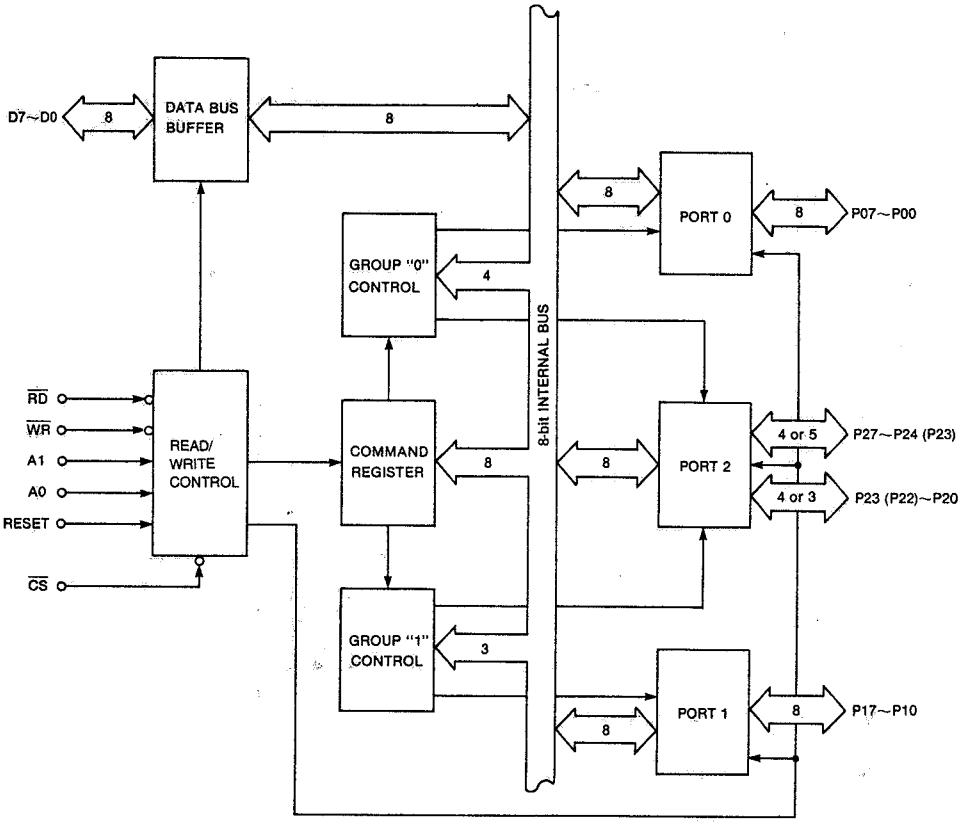
μPD71055C

Parallel Interface Unit

(Top View)



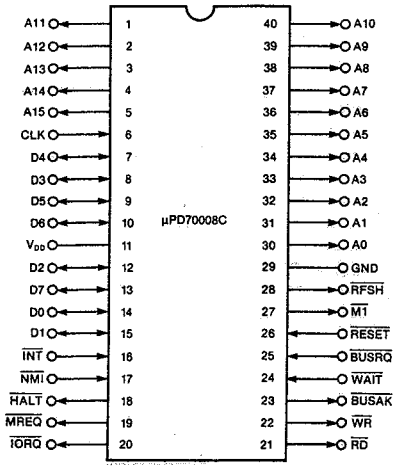
Block Diagram



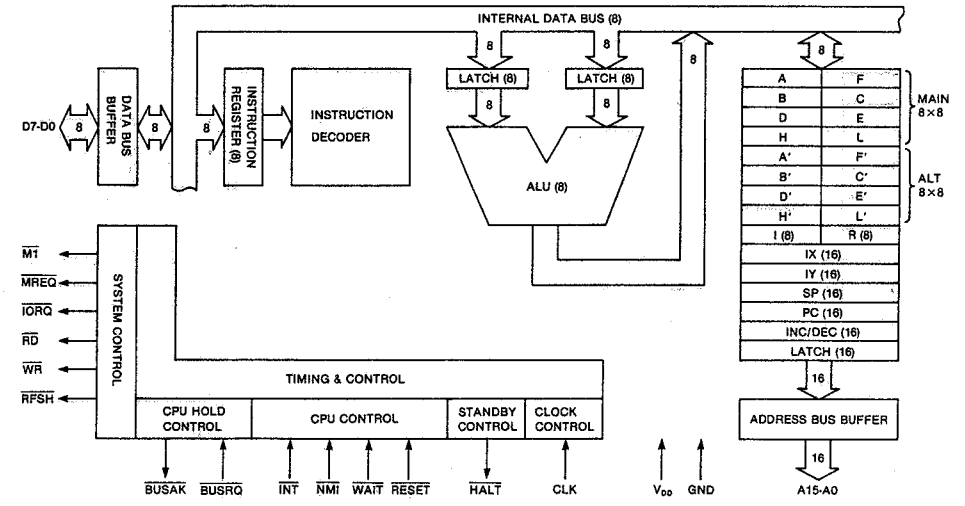
μPD70008C

8 bit Microprocessor

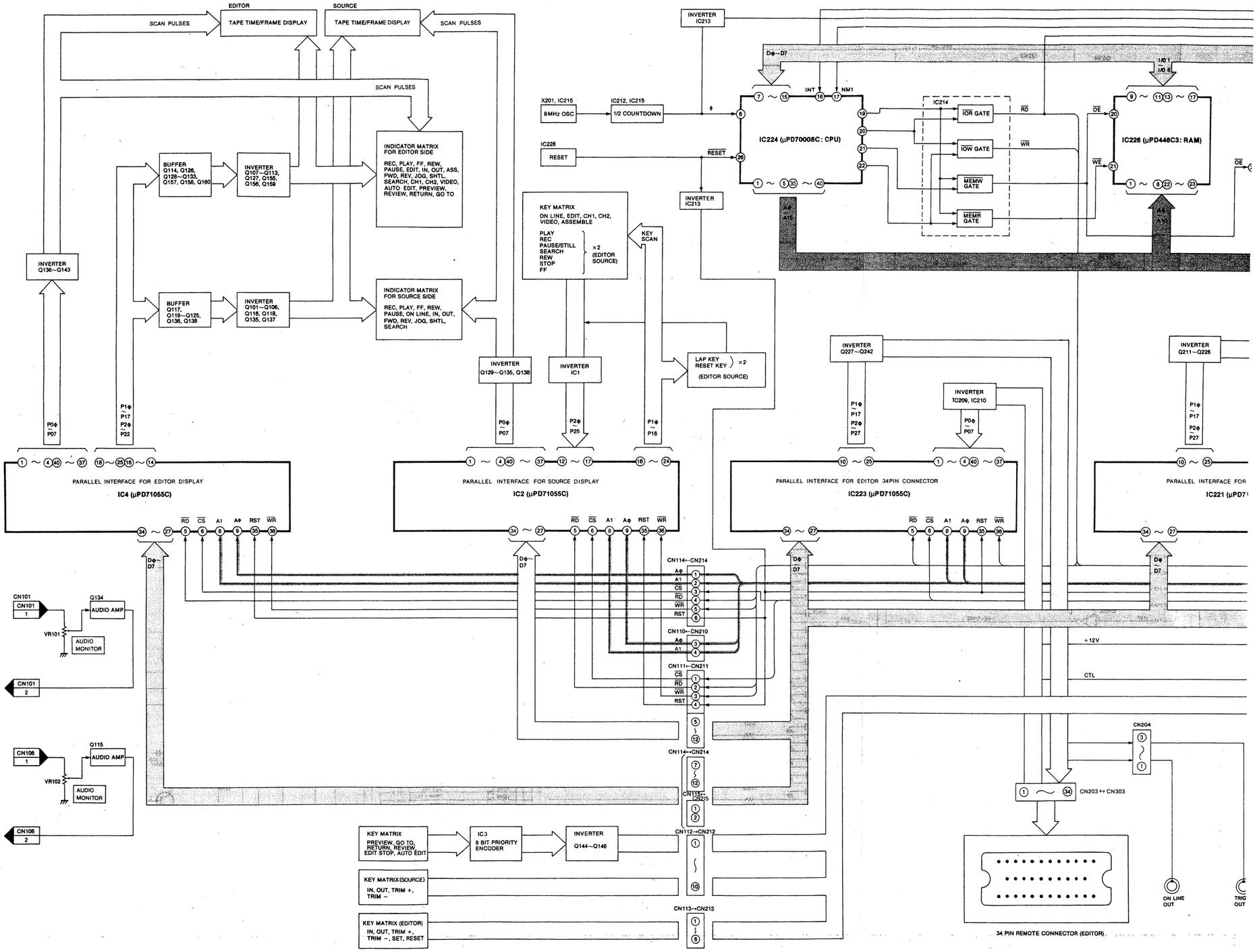
(Top View)



Block Diagram



OVERALL BLOCK DIAGRAM



IC226 (μPD446C3: RAM)

IC225 (VSIO236:P-ROM)

LINE DECODER
IC211 (TC74HC138P)

IOR/IOO GATE
IC206

OCTAL BUS BUFFER
IC218
TC74HC244P

SEARCH OPERATING DETECTOR
IC203, IC205

AMP
IC207

AMP
IC206

SEARCH DIAL (EDITOR)

SEARCH DIAL (SOURCE)

INVERTER
Q211~Q226

INVERTER
IC207, IC208

INVERTER
Q203~Q210

PARALLEL INTERFACE FOR SOURCE 34PIN CONNECTOR
IC221 (μPD71055C)

PARALLEL INTERFACE FOR EDITING CONTROL AND MODE SELECT
IC222 (μPD71055C)

PARALLEL INTERFACE FOR 20PIN CONNECTOR
IC220 (μPD71055C)

PARALLEL INTERFACE FOR CONTROL PULSE
IC219 (TMP82C53P)

VOLTAGE REGURATOR
IC202, Q202

VOLTAGE REGURATOR
IC201, Q201

CTL PULSE AMP
IC208

ERROR BUZZER OSC
Q243~Q248

SP

TO Q107~Q113, Q127, Q155, Q158, Q159

TO IC223, IC221, IC222, IC220, ETC.

TO IC4, IC6, IC3, ETC.

TO Q101~Q106, Q116, Q118, Q135, Q137

: DATA BUS

: ADDRESS BUS

CN203 ↔ CN303

CN202↔CN302

CN201↔CN301

CN204

CN206 CN205 CN207 CN208

ON LINE OUT

TRIGGER OUT

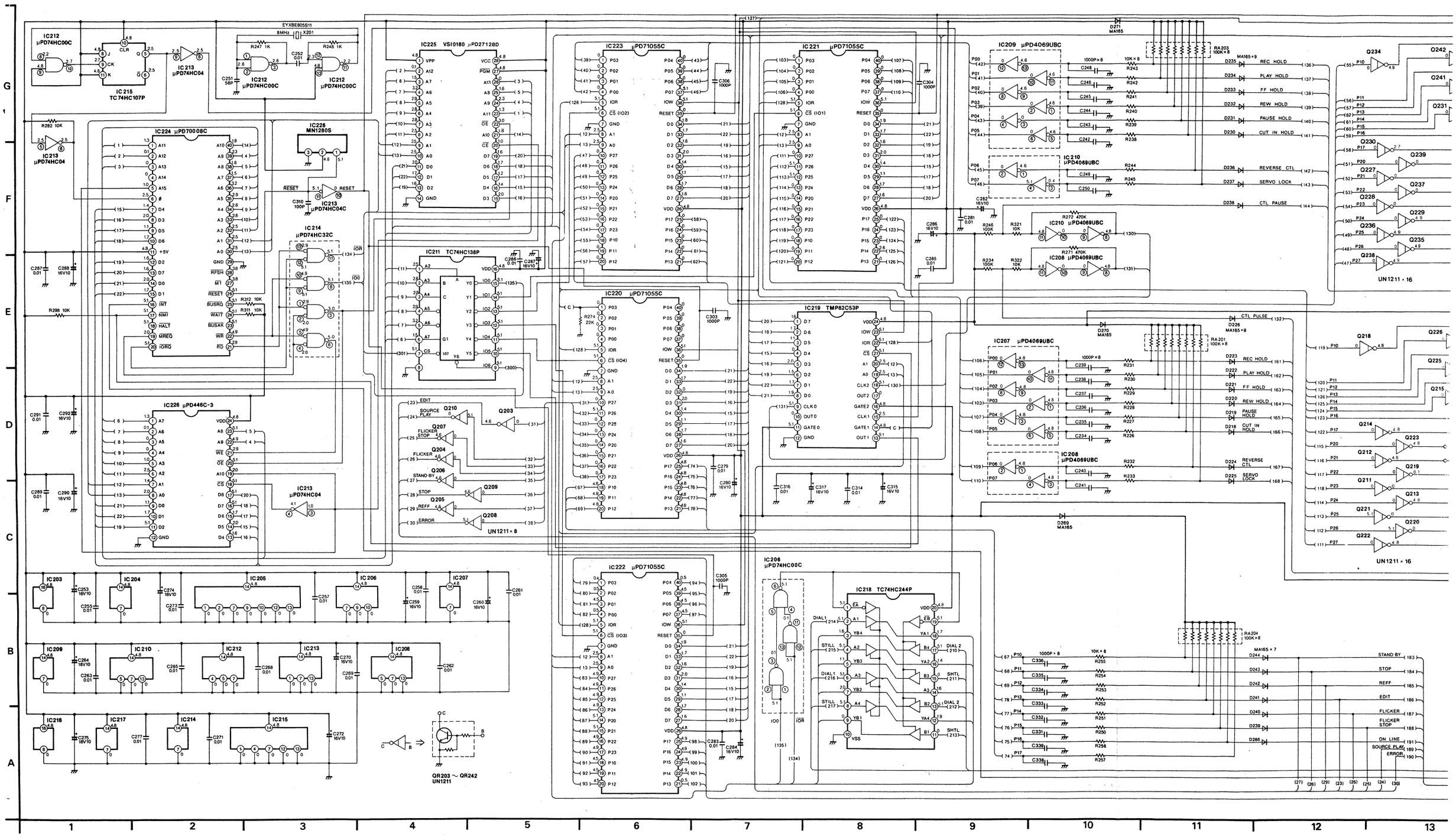
MODE SELECT SW
(VTR SELECT, PRE-ROLL, FLASHING)
(S & E)

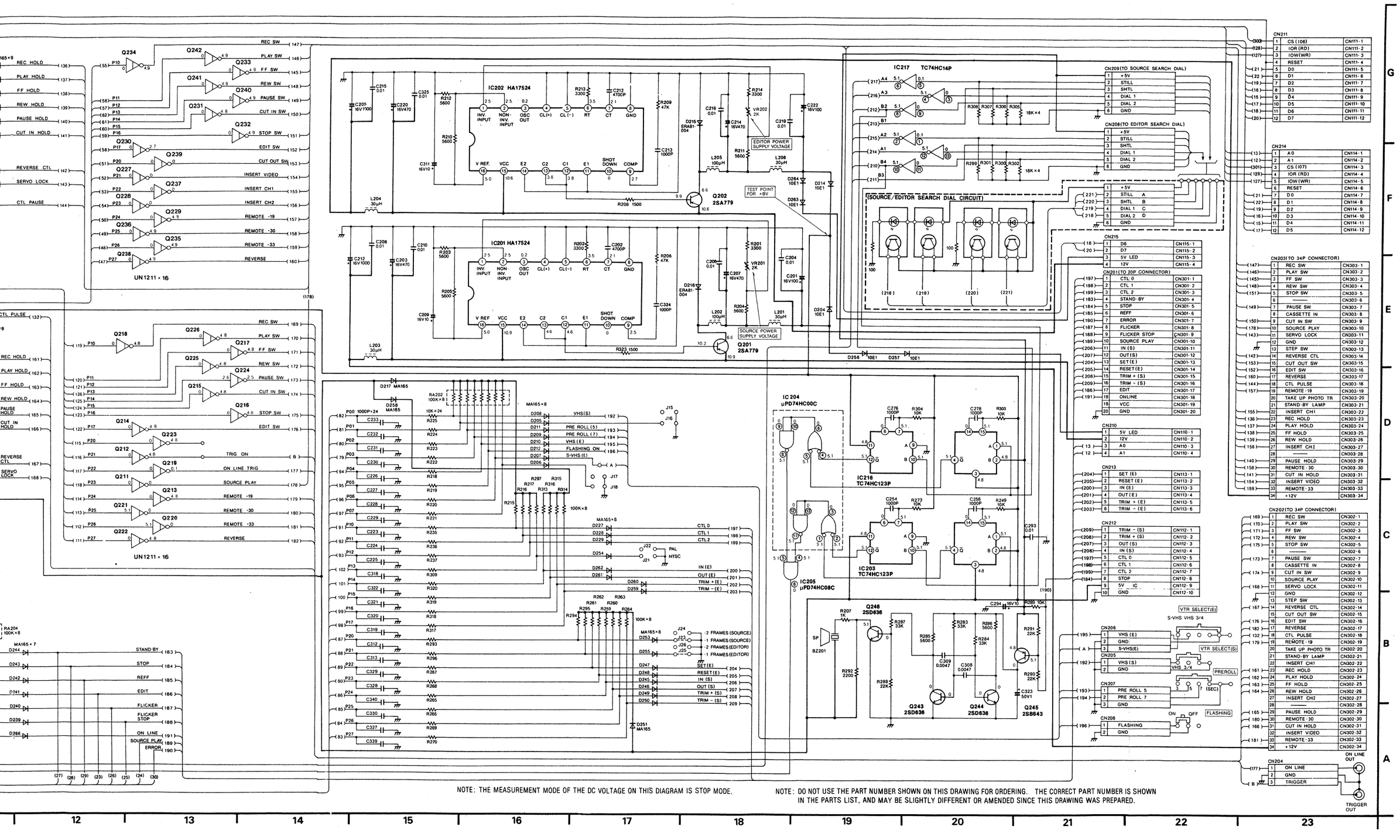
REMOTE CONNECTOR (EDITOR)

34 PIN REMOTE CONNECTOR (SOURCE)

20 PIN EXT. CONNECTOR

MAIN SCHEMATIC DIAGRAM



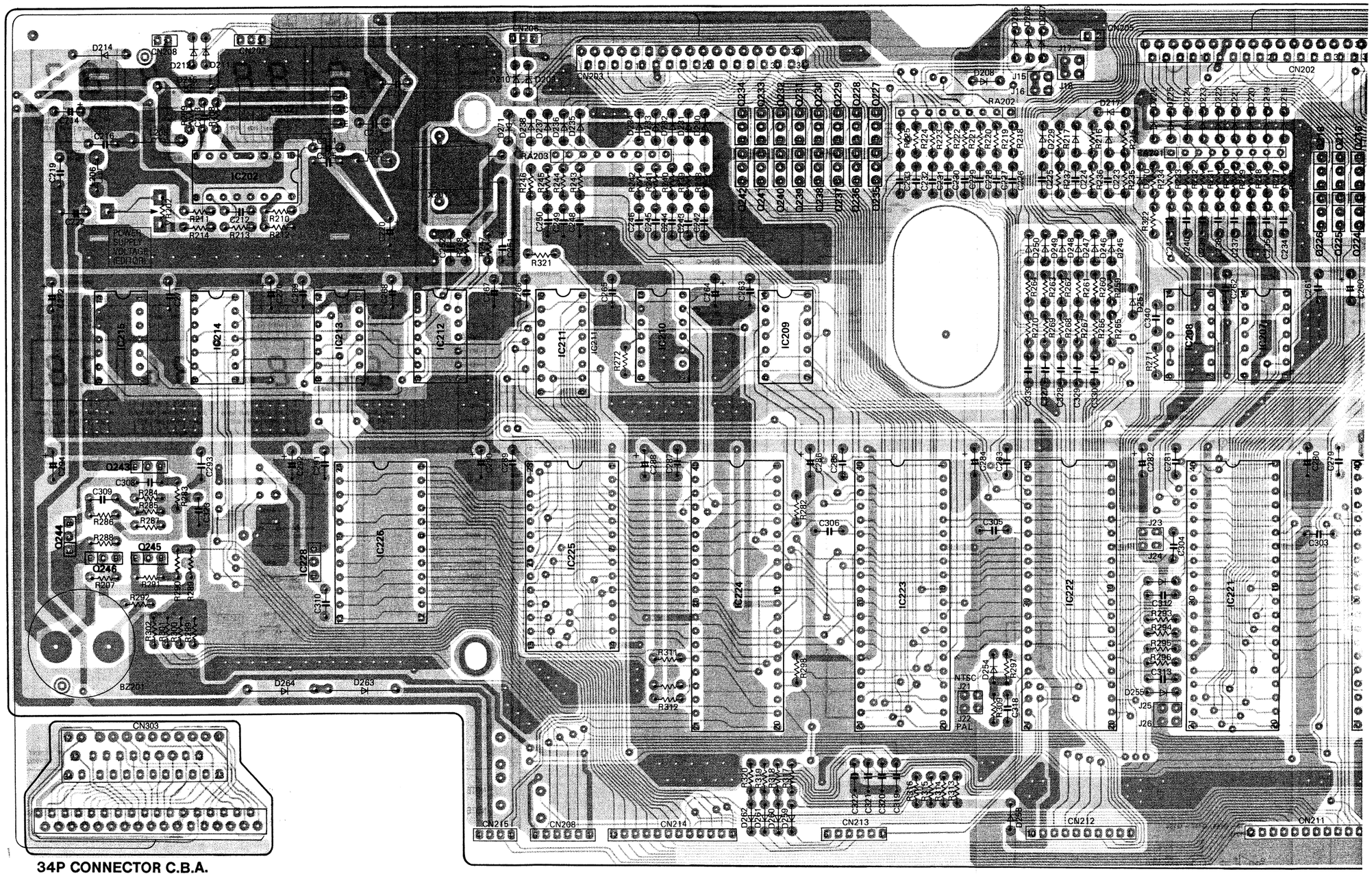


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

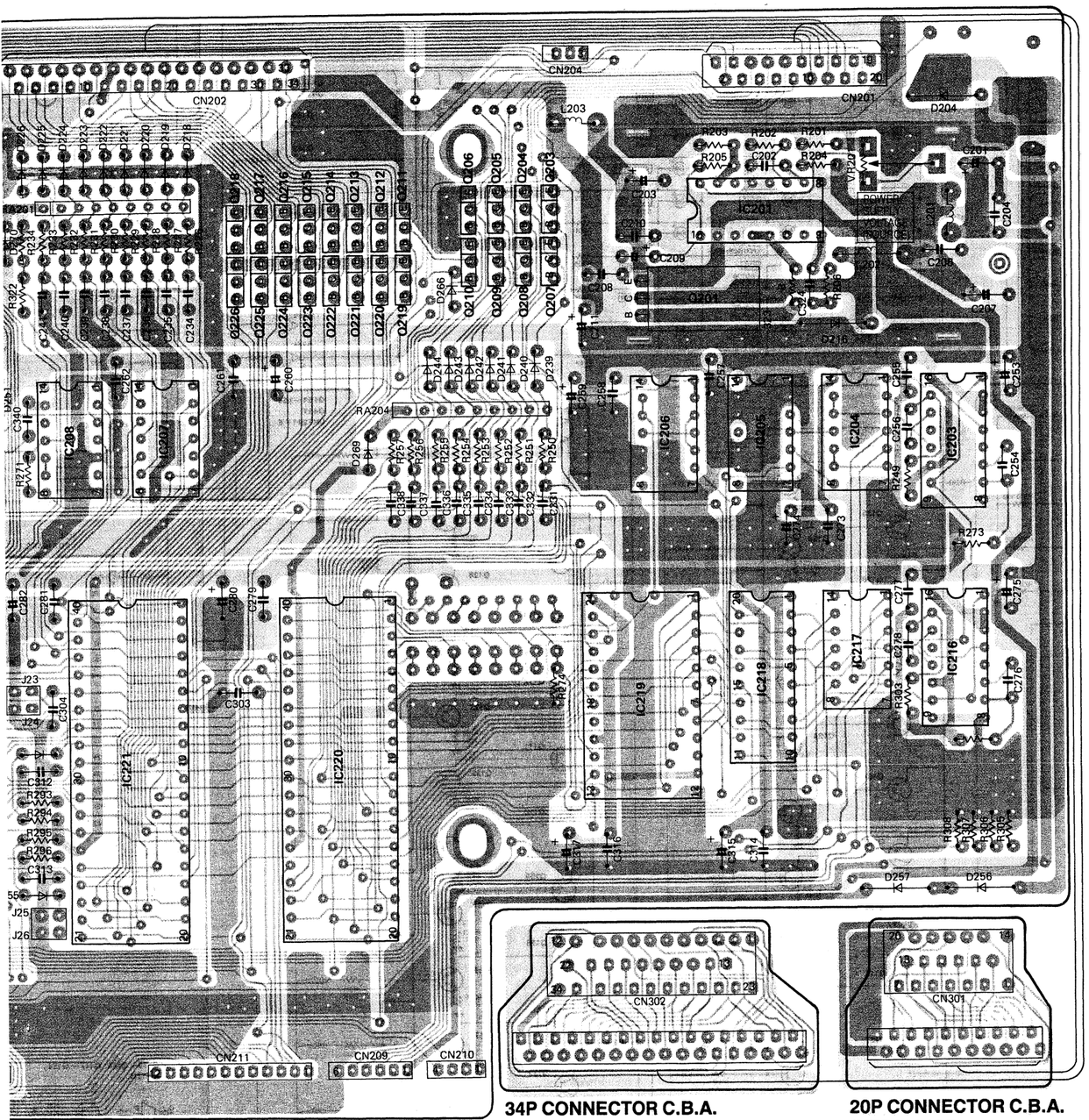
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

MAIN C.B.A. (VEP20215C)

(FOIL SIDE)



34P CONNECTOR C.B.A.
(VEP20218B)
(FOIL SIDE)


CN202
CN204
CN201
D204
L203
R203
R202
R201
R205
C207
R204
C201
C203
IC201
C204
C209
C208
Q201
C207
D266
Q210
Q209
Q208
Q207
Q206
Q205
Q2044
Q203
RA204
IC206
IC205
IC204
IC203
R273
C273
C271
C278
IC217
IC216
IC218
IC219
R303
C276
C275
C274
C315
C316
C317
R306
R307
R304
R305
D257
D256
IC208
IC300
C340
R271
C262
C261
C260
C253
C254
C256
C234
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C236
C237
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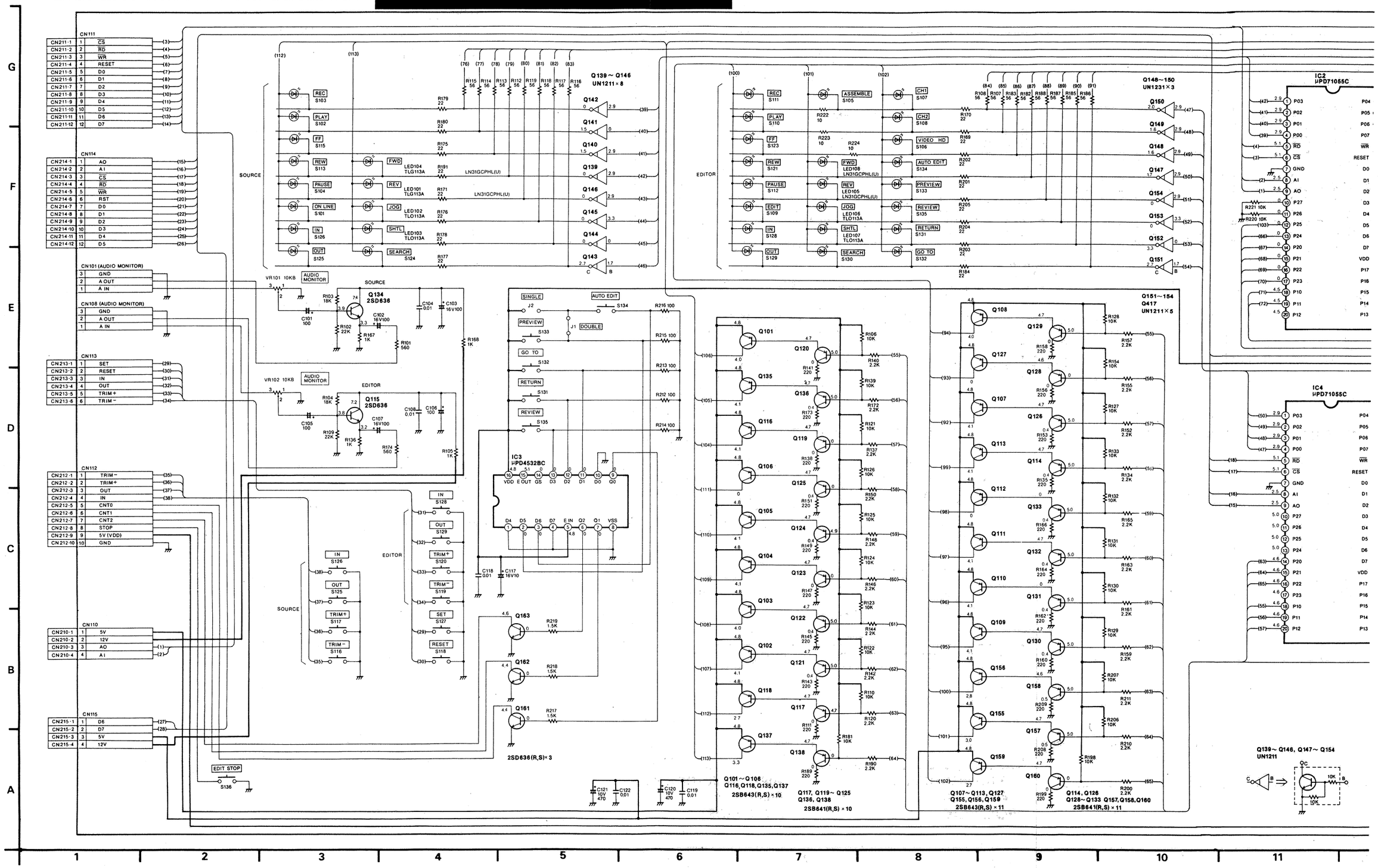
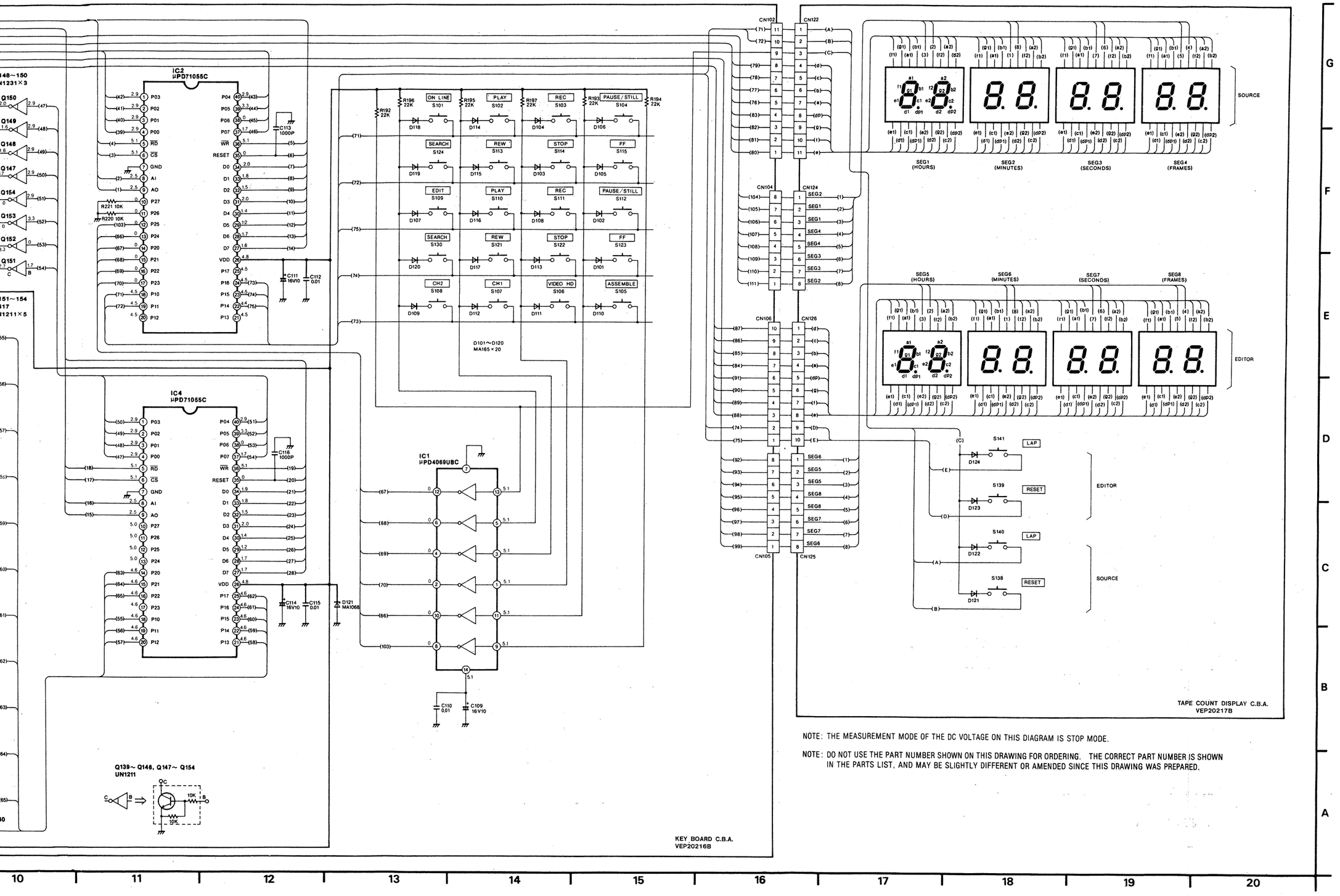
R238
R239
R240

KEY BOARD & TAPE COUNT DISPLAY SCHEMATIC DIAGRAM





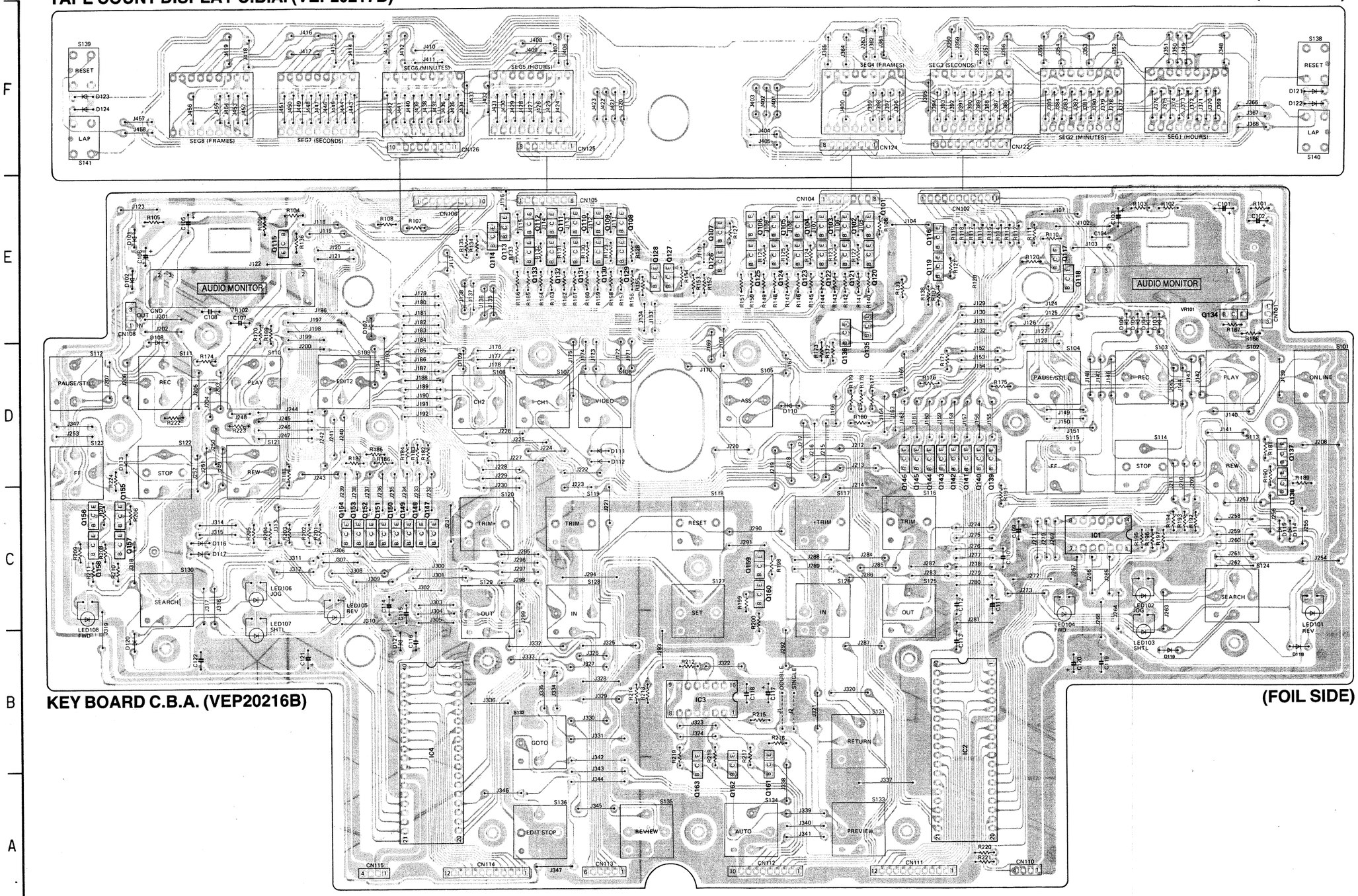
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

KEY BOARD C.B.A. (VEP20216B) & TAPE COUNT DISPLAY C.B.A. (VEP20217B)

TAPE COUNT DISPLAY C.B.A. (VEP20217B)

(FOIL SIDE)



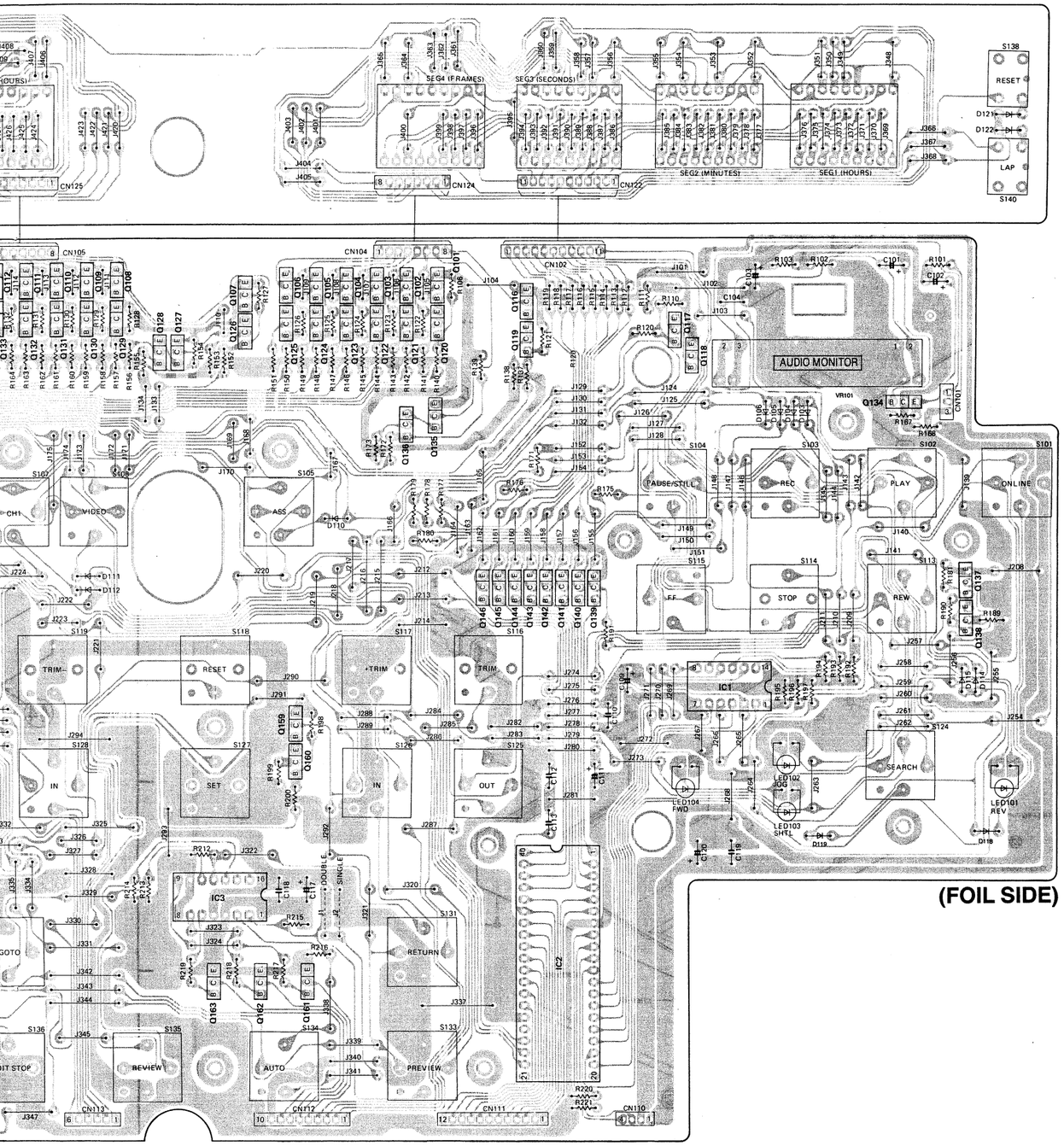
KEY BOARD C.B.A. (VEP20216B)

(FOIL SIDE)

KEY E
Trans
Q1
Q1
Q1

OUNT DISPLAY C.B.A. (VEP20217B)

(FOIL SIDE)



(FOIL SIDE)

5 6 7 8 9

KEY BOARD C.B.A.	
Transistor	
Q101	E-6
Q102	E-6
Q103	E-6
Q104	E-6
Q105	E-6
Q106	E-6
Q107	E-5
Q108	E-5
Q109	E-5
Q110	E-4
Q111	E-4
Q112	E-4
Q113	E-4
Q114	E-4
Q115	E-2
Q116	E-7
Q117	E-8
Q118	E-8
Q119	E-7
Q120	E-6
Q121	E-6
Q122	E-6
Q123	E-6
Q124	E-6
Q125	E-6
Q126	E-5
Q127	E-5
Q128	E-5
Q129	E-5
Q130	E-5
Q131	E-4
Q132	E-4
Q133	E-4
Q134	E-9
Q135	E-6
Q136	E-6
Q137	D-9
Q138	D-9
Q139	D-7
Q140	D-7
Q141	D-7
Q142	D-7
Q143	D-7
Q144	D-7
Q145	D-7
Q146	D-7
Q147	C-3
Q148	C-3
Q149	C-3
Q150	C-3
Q151	C-3
Q152	C-3
Q153	C-3
Q154	C-3
Q155	C-1
Q156	C-1
Q157	C-1
Q158	C-1
Q159	C-6
Q160	C-6
Q161	B-6
Q162	B-5
Q163	B-5

ADDRESS INFORMATION

Integrated Circuit	
IC1	C-8
IC2	B-7
IC3	B-5
IC4	B-3
Adjustments	
VR101	E-8
VR102	E-2
Connector	
CN101	E-9
CN102	E-7
CN104	E-6
CN105	E-4
CN106	E-3
CN108	E-1
CN110	A-8
CN111	A-7
CN112	A-6
CN113	A-5
CN114	A-4
CN115	A-3

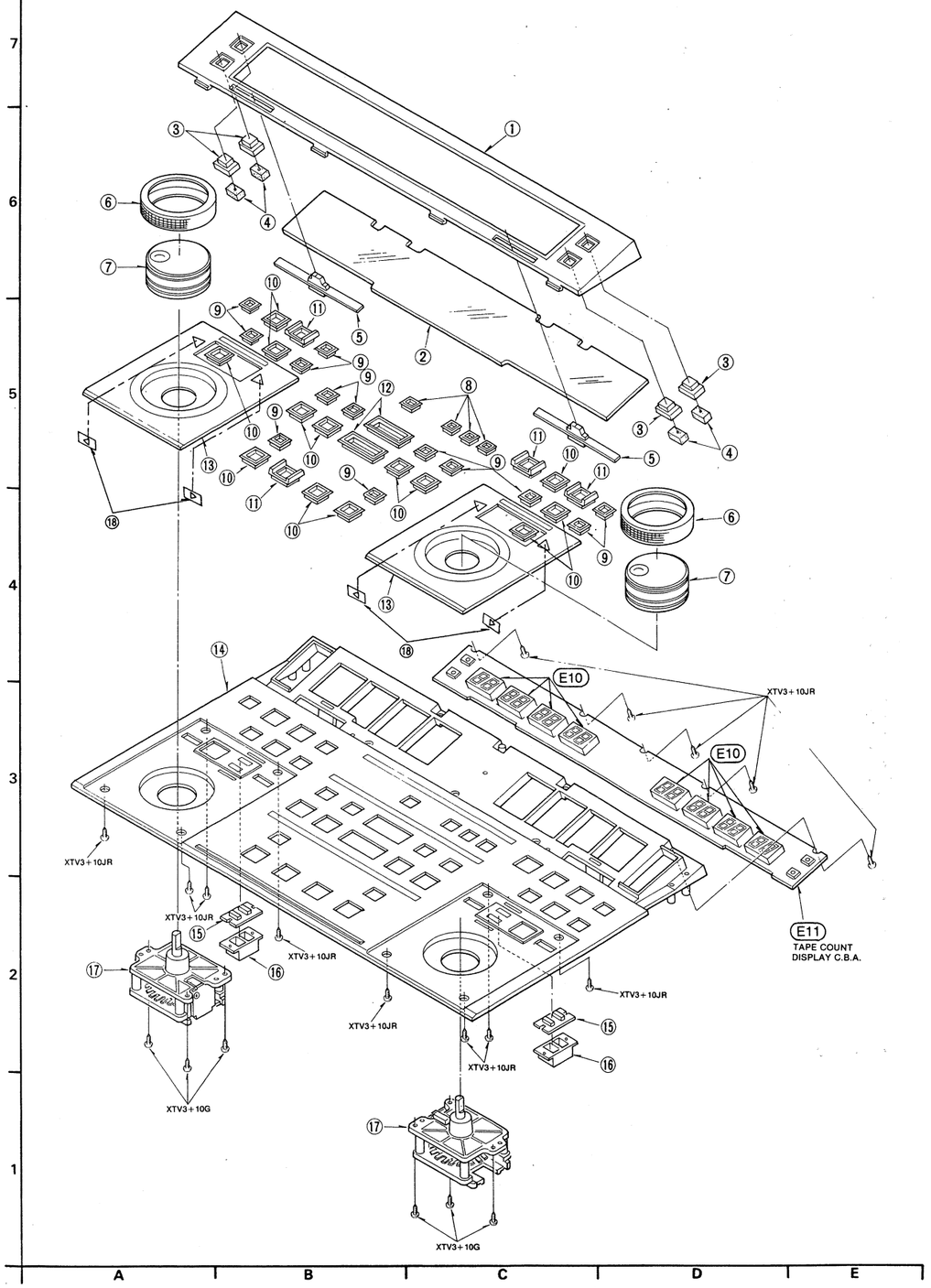
ADDRESS INFORMATION

TAPE COUNT DISPLAY C.B.A.	
Connector	
CN122	F-7
CN124	F-6
CN125	F-4
CN126	F-3

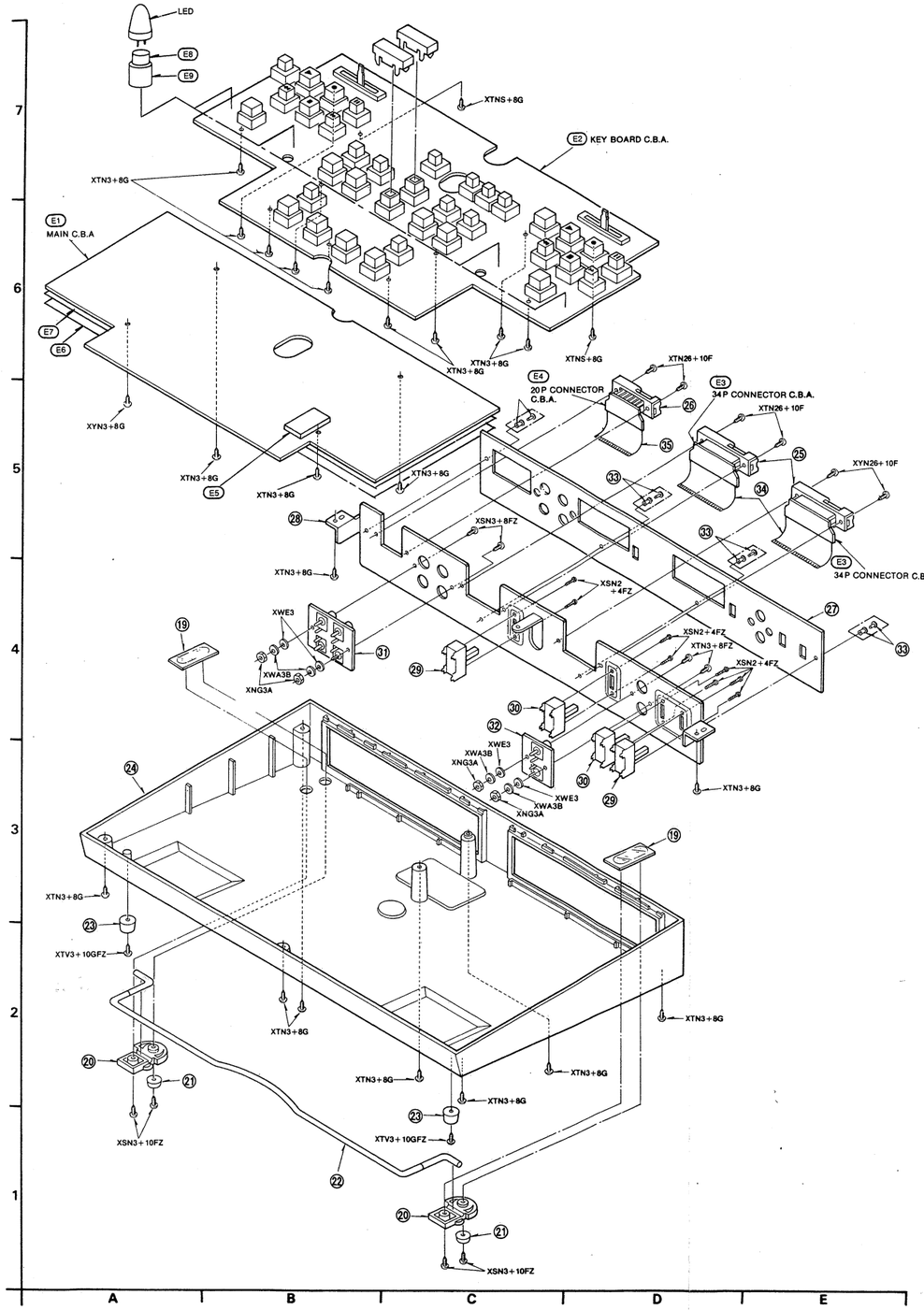
ADDRESS INFORMATION

EXPLODED VIEWS

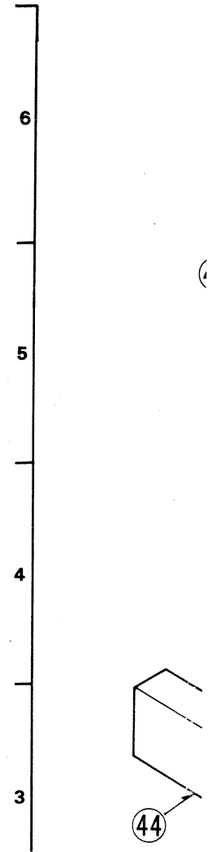
❶ Top Case Section



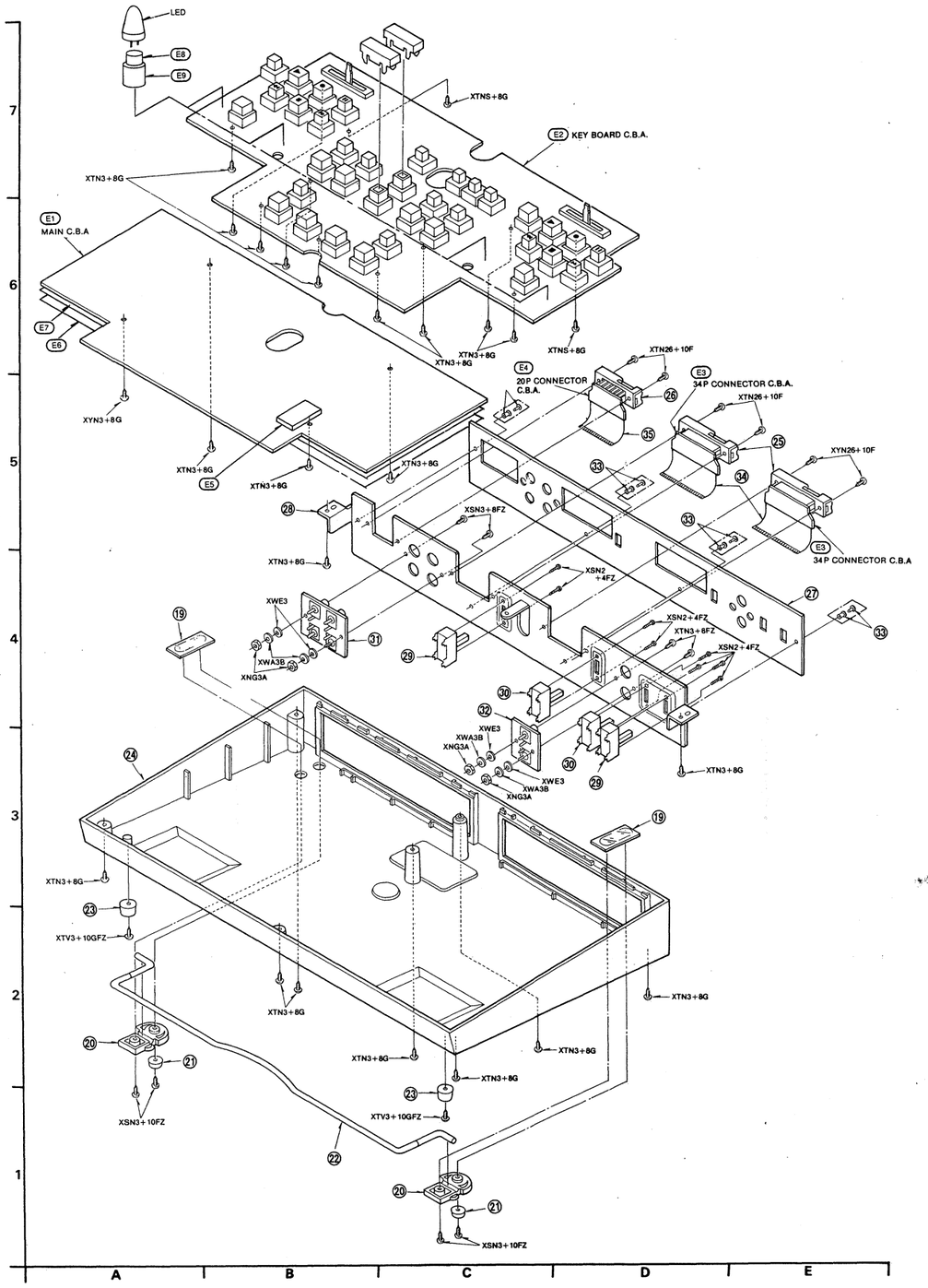
❷ Bottom Case Section



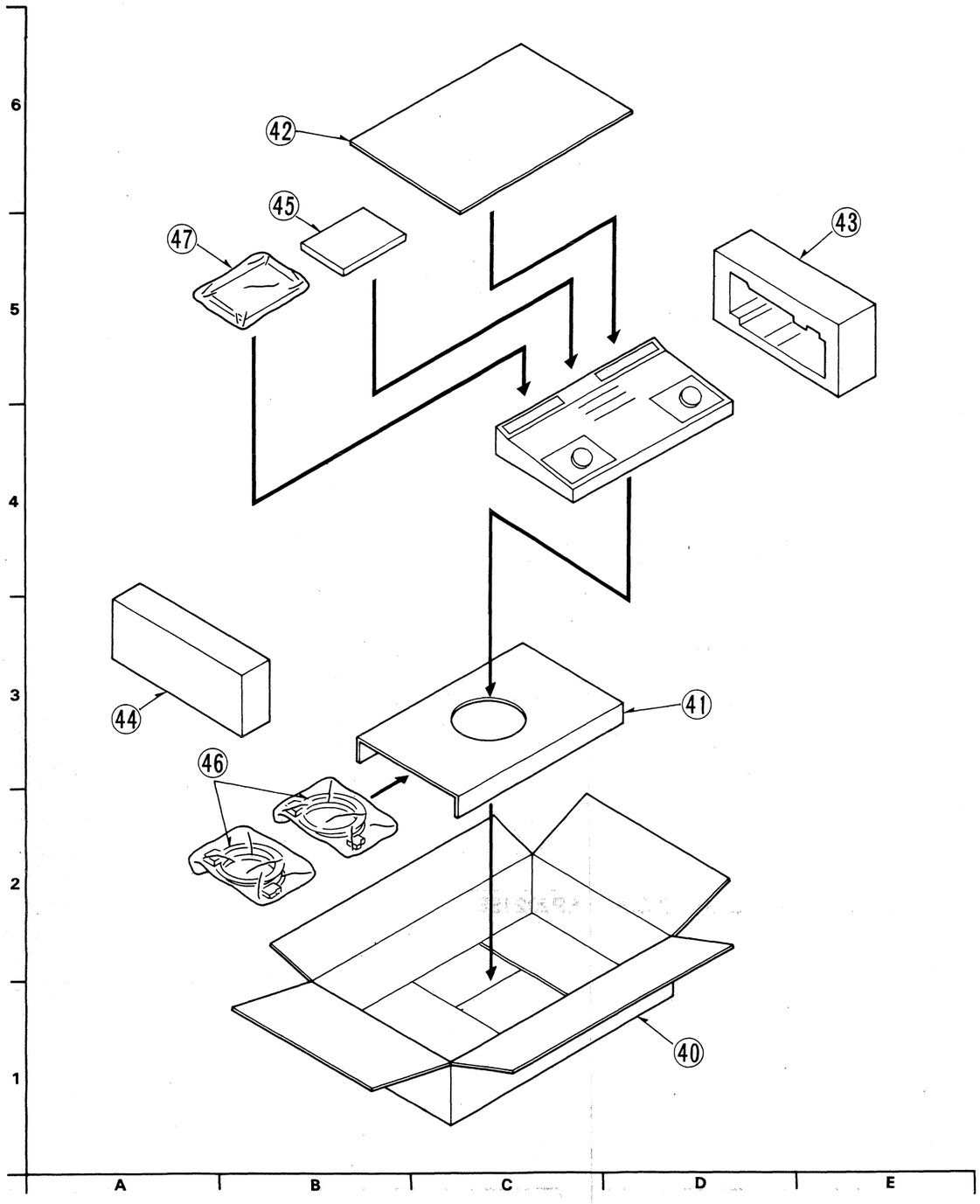
❸ Packing



❷ Bottom Case Section



❸ Packing Parts Section



PEPLACEMENT PARTS LIST

Notes:

1. •Be sure to make your orders of replacement parts according to this list.
   •"<R>" in Remark column indicates recommended parts.
2. IMPORTANT SAFETY NOTICE
   Components identified by " " have special characteristics important for safety.
   When replacing any of these components, use only the original ones.
   Meaning of symbol on this parts list is exactly the same as symbol on Schematic and Circuit Board Diagrams.
3. Unless otherwise specified;
   All resistors are in OHMS (Ω), K = 1,000Ω, M = 1,000 kΩ.
4. ITEM NUMBERS WITH CAPITAL LETTER E
   Item numbers with capital letter E (Example : E1, E2,...) in Ref. No. column mean that the parts are listed with the E item numbers in the exploded views.
5. The main assembled parts are shown below C.B.A. marked with "■".
6. When ordering parts, use part No. only from Part No. column.
7. Printed circuit board assembly with mark (NLA) is no longer available after discontinuation of the product.

MECHANICAL REPLACEMENT PARTS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VYF1145	FRONT COVER	1	<R>
2(1)		VKW0741	WINDOW PLATE	1	<R>
3(1)		VGK1691	RESET/RAP BUTTON	4	<R>
4(1)		VMT0056	CUSHION	4	
5(1)		VGU4004	AUDIO MONITOR KNOB	2	<R>
6(1)		VMG0409	SEARCH DIAL LABAR	2	<R>
7(1)		VGU3970	SEARCH KNOB	2	<R>
8(1)		VGQ0977	SWITCH GARD	4	
9(1)		VGQ0976	SWITCH GARD	13	
10(1)		VGQ0975	SWITCH GARD	13	
11(1)		VGQ0974	SWITCH GARD	4	
12(1)		VGQ1040	SWITCH GARD	2	
13(1)		VGP1471	PLATE	2	<R>
14(1)		VKM1095	TOP PANEL	1	<R>
15(1)		VGL0270	JOG/SHTL INDICATOR	2	
16(1)		VGF0186	LED COVER	2	
17(1)		VSP0185	SEARCH DIAL UNIT	2	<R>
18(1)		VGL0268	FWD,REV PANELLIGHT	4	
19(2)		VMA5793	STAND HOLDER ANGLE	2	
20(2)		VGQ0292	STAND HOLDER	2	
21(2)		VKA0024	RUBBER FOOT (REAR)	2	
22(2)		VMA5792	STAND	1	
23(2)		VKA0025	RUBBER FOOT (FRONT)	2	
24(2)		VKM1094	BOTTOM CASE	1	<R>
25(2)		VJP62	34 PIN CONNECTOR	2	
26(2)		VJS1265	20 PIN CONNECTOR	1	
27(2)		VGP1718	REAR PANEL	1	
28(2)		VGM0310	REAR PANEL ANGLE	1	
29(2)		ESD32232	SLIDE SWITCH	2	<R>
30(2)		ESD32231	SLIDE SWITCH	2	<R>
31(2)		VJJ0164	PHONO PIN JACK UNIT (4P)	1	
32(2)		VJJ0145	PHONO PIN JACK UNIT (2P)	1	
33(2)		VMD0907	RIVET	4	
34(2)		VEE3036	FLEXIBLE JUMPER (36P)	2	
35(2)		VEE3037	FLEXIBLE JUMPER (20P)	1	
40(3)		VPG4554	PACKING CASE	1	<R>
41(3)		VPN0715	CUSHION (BOTTOM)	1	
42(3)		VPN0714	CUSHION (TOP)	1	
43(3)		VPN0712	CUSHION (RIGHT)	1	
44(3)		VPN0713	CUSHION (LEFT)	1	
45(3)		VQT2966	OPERATING INSTRUCTIONS	1	<R><!>
			(ENGLISH)		FOR AG-A750-E
45(3)		VQT2967	OPERATING INSTRUCTIONS	1	<R><!>
			(FRENCH, GERMAN)		FOR AG-A750-E
45(3)		VQT2968	OPERATING INSTRUCTIONS	1	<R><!>
			(ITALIAN, SPANISH)		FOR AG-A750-EP
46(3)		VJA0149	34 PIN CONNECTION CABLE	2	<R>
47(3)		VFB0065	DUST COVER	1	<R>

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E1		VEP20215C	MAIN C.B.A.	1	<R>(NLA)
E2		VEP20216B	KEY BOARD C.B.A.	1	<R>(NLA)
					INCLUDING THE
					TAPE COUNT
					DISPLAY C.B.A.
					(VEP20217B)
E11		VEP20217B	TAPE COUNT DISPLAY C.B.A.	1	<R>(NLA)
					PART LIST IS
					INCLUDED IN KEY
					BOARD C.B.A.
					(VEP20216B)
E3		VEP20218B	34 PIN CONNECTOR C.B.A.	2	<R>(NLA)
E4		VEP20219B	20 PIN CONNECTOR C.B.A.	1	<R>(NLA)
	■	VEP20215C	MAIN C.B.A.		<R>(NLA)
			INTEGRATED CIRCUITS		
IC201,202		HA17524P	IC	2	<R>
IC203		TC74HC123P	IC	1	<R>
IC204		UPD74HC00C	IC	1	<R>
IC205		UPD74HC08C	IC	1	<R>
IC206		UPD74HC00C	IC	1	<R>
IC207-210		UPD4069UBC	IC	4	<R>
IC211		TC74HC138P	IC	1	<R>
IC212		UPD74HC00C	IC	1	<R>
IC213		UPD74HC04C	IC	1	<R>
IC214		UPD74HC32C	IC	1	<R>
IC215		TC74HC107P	IC	1	<R>
IC216		TC74HC123P	IC	1	<R>
IC217		TC74HC14P	IC	1	<R>
IC218		TC74HC244P	IC	1	<R>
IC219		TMP82C53P	IC	1	<R>
IC220-223		UPD71055C	IC	4	<R>
IC224		UPD70008C	IC	1	<R>
IC225		VSI0236	P-ROM	1	<R>
IC226		UPD446C	IC	1	<R>
IC228		MN1280S	IC	1	<R>
			TRANSISTORS		
Q201,202		2SA779K	TRANSISTOR	2	<R>
Q203-242		UN1211	TRANSISTOR	40	<R>
Q243,244		2SD636	TRANSISTOR	2	(R,S)<R>
Q245		2SB643	TRANSISTOR	1	(R,S)<R>
Q246		2SD636	TRANSISTOR	1	(R,S)<R>
			DIODES		
D204		10E1	DIODE	1	<R>
D205-212		MA165	DIODE	8	<R>
D215,216		ERA81-004	DIODE	2	<R>
D217-251		MA165	DIODE	35	<R>
D252-255		MA165	DIODE	4	<R>
D256,257		10E1	DIODE	2	<R>
D258-262		MA165	DIODE	5	<R>
D263,264		10E1	DIODE	2	<R>
D266		MA165	DIODE	1	<R>
D269-271		MA165	DIODE	3	<R>
D214		10E1	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTOR ARRAY		
RA201-203		EXBP88104J	RESISTOR ARRAY 100K	3	
RA204		EXBP88472J	RESISTOR ARRAY 4.7K	1	
BZ201		VSQ0521	BUZZER	1	
VR201,202		EVMK4GA00B23	V.RESISTOR	2	
X201		VSX0191	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E5		VJS1925	IC SOCKET	1	FOR IC225
E6		VSC2147	SHIELD PLATE	1	
E7		VMZ1074	INSULATOR SHEET	1	
	■	VEP20216B	KEY BOARD C.B.A.		<R>(NLA)
					INCLUDING THE
					TAPE COUNT
					DISPLAY C.B.A.
					(VEP20217B)
			INTEGRATED CIRCUITS		
IC1		UPD4069UBC	IC	1	<R>
IC2		UPD71055C	IC	1	<R>
IC3		UPD4532BC	IC	1	<R>
IC4		UPD71055C	IC	1	<R>
			TRANSISTORS		
Q101-113		2SB643	TRANSISTOR	13	(R,S) <R>
Q114		2SB641	TRANSISTOR	1	(R,S) <R>
Q115		2SD636	TRANSISTOR	1	(R,S) <R>
Q116		2SB643	TRANSISTOR	1	(R,S) <R>
Q117		2SB641	TRANSISTOR	1	(R,S) <R>
Q118		2SB643	TRANSISTOR	1	(R,S) <R>
Q119-126		2SB641	TRANSISTOR	8	(R,S) <R>
Q127		2SB643	TRANSISTOR	1	(R,S) <R>
Q128-133		2SB641	TRANSISTOR	6	(R,S) <R>
Q134		2SD636	TRANSISTOR	1	(R,S) <R>
Q135		2SB643	TRANSISTOR	1	(R,S) <R>
Q136		2SB641	TRANSISTOR	1	(R,S) <R>
Q137		2SB643	TRANSISTOR	1	(R,S) <R>
Q138		2SB641	TRANSISTOR	1	(R,S) <R>
Q139-147		UN1211	TRANSISTOR	9	<R>
Q148-150		UN1231	TRANSISTOR	3	<R>
Q151-154		UN1211	TRANSISTOR	4	<R>
Q155,156		2SB643	TRANSISTOR	2	(R,S) <R>
Q157,158		2SB641	TRANSISTOR	2	(R,S) <R>
Q159		2SB643	TRANSISTOR	1	(R,S) <R>
Q160		2SB641	TRANSISTOR	1	(R,S) <R>
Q161-163		2SD636	TRANSISTOR	3	(R,S) <R>
			DIODES		
D101-120		MA165	DIODE	20	<R>
LED101		LN31GCPHL	LED	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
LED102,103		TLO113A	LED	2	<R>
LED104,105		LN31GCPHL	LED	2	<R>
LED106,107		TLO113A	LED	2	<R>
LED108		LN31GCPHL	LED	1	<R>
D121		MN1068	DIODE	1	<R>
			RESISTORS		
R101		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R102		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R103,104		ERDS2TJ183	C.RESISTOR 1/4W 18K	2	
R105		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R106		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R107,108		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R109		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R110		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R111		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R112-119		ERDS2TJ560	C.RESISTOR 1/4W 56	8	
R120		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R121-133		ERDS2TJ103	C.RESISTOR 1/4W 10K	13	
R134		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R135		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R136		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R137		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R138		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R139		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R140		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R141		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R142		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R143		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R144		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R145		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R146		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R147		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R148		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R149		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R150		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R151		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R152		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R153		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R154		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R155		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R156		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R157		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R158		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R159		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R160		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R161		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R162		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R163		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R164		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R165		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R166		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R167,168		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R169		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R170		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R171		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R172		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R173		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R174		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R175-180		ERDS2TJ220	C.RESISTOR 1/4W 22	6	
R181		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R182,183		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R184		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R185-188		ERDS2TJ560	C.RESISTOR 1/4W 56	4	
R189		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R190		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R191		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R192-197		ERDS2TJ223	C.RESISTOR 1/4W 22K	6	
R198		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R199		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R200		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R201		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R202-204		ERDS2TJ120	C.RESISTOR 1/4W 12	3	

Order No. VRD9003S677

V00782

Service Manual

Video Product

Supplement

Effective from : First Production

Model No. AG-A750-E/EP
Bulletin No. 3

Subject : Correction in Part Numbers List

Please use this manual together with the Service Manual for Order No. VRD8809M606
Model No. AG-A750-E/EP

Interchangeability Code See the I/C column on the following Parts Number list.

	Parts	Set Production		Parts	Set Production		Parts	Set Production		Parts	Set Production			
A	Original	Early	B	Original	Early	C	Original	Early	D	Original	Early	E	Addition
	New	Late		New	Late		New	Late		New	Late	F	Deletion
												G	Other

Parts Number

Ref No.	Original Part No.	New Part No.	Part Name & Descriptions	I/C	Remarks
VR101	EVAK0AC10B14	EWANF0C10B14	VARIABLE RESISTOR	G	
VR102	EVAK0AC10B14	EWANF0C10B14	VARIABLE RESISTOR	G	

Panasonic / National

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

Printed in Japan

PARTS LIST

Ref.No.		Part No.	Part Name & Description			Pcs	Remarks
			RESISTORS				
R201,202		ERDS2TJ332	C.RESISTOR	1/4W	3.3K	2	
R203-205		ERDS2TJ562	C.RESISTOR	1/4W	5.6K	3	
R206		ERDS2TJ473	C.RESISTOR	1/4W	47K	1	
R207		ERDS2TJ473	C.RESISTOR	1/4W	47K	1	
R208		ERDS2TJ152	C.RESISTOR	1/4W	1.5K	1	
R209		ERDS2TJ473	C.RESISTOR	1/4W	47K	1	
R210-212		ERDS2TJ562	C.RESISTOR	1/4W	5.6K	3	
R213,214		ERDS2TJ332	C.RESISTOR	1/4W	3.3K	2	
R215-217		ERDS2TJ472	C.RESISTOR	1/4W	4.7K	3	
R218-233		ERDS2TJ103	C.RESISTOR	1/4W	10K	16	
R234		ERDS2TJ104	C.RESISTOR	1/4W	100K	1	
R235-245		ERDS2TJ103	C.RESISTOR	1/4W	10K	11	
R246		ERDS2TJ104	C.RESISTOR	1/4W	100K	1	
R247,248		ERDS2TJ102	C.RESISTOR	1/4W	1K	2	
R249-257		ERDS2TJ103	C.RESISTOR	1/4W	10K	9	
R259-264		ERDS2TJ472	C.RESISTOR	1/4W	4.7K	6	
R265-270		ERDS2TJ103	C.RESISTOR	1/4W	10K	6	
R271,272		ERDS2TJ474	C.RESISTOR	1/4W	470K	2	
R273		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R274		ERDS2TJ223	C.RESISTOR	1/4W	22K	1	
R282		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R283		ERDS2TJ333	C.RESISTOR	1/4W	33K	1	
R284,285		ERDS2TJ562	C.RESISTOR	1/4W	5.6K	2	
R286,287		ERDS2TJ333	C.RESISTOR	1/4W	33K	2	
R288		ERDS2TJ223	C.RESISTOR	1/4W	22K	1	
R289		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R290,291		ERDS2TJ223	C.RESISTOR	1/4W	22K	2	
R292		ERDS2TJ222	C.RESISTOR	1/4W	2.2K	1	
R293		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R294,295		ERDS2TJ104	C.RESISTOR	1/4W	100K	2	
R296		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R297		ERDS2TJ104	C.RESISTOR	1/4W	100K	1	
R298		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R299-301		ERDS2TJ183	C.RESISTOR	1/4W	18K	3	
R302		ERDS2TJ472	C.RESISTOR	1/4W	4.7K	1	
R303,304		ERDS2TJ103	C.RESISTOR	1/4W	10K	2	
R305,306		ERDS2TJ472	C.RESISTOR	1/4W	4.7K	2	
R307,308		ERDS2TJ183	C.RESISTOR	1/4W	18K	2	
R309		ERDS2TJ103	C.RESISTOR	1/4W	10K	1	
R311,312		ERDS2TJ103	C.RESISTOR	1/4W	10K	2	
R313-316		ERDS2TJ472	C.RESISTOR	1/4W	4.7K	4	
R317-322		ERDS2TJ103	C.RESISTOR	1/4W	10K	6	
R323		ERDS2TJ152	C.RESISTOR	1/4W	1.5K	1	
			VARIABLE RESISTORS				
VR201,202		EVMK4GA00B23	V.RESISTOR			2	
			CAPACITORS				
C201		ECEA1CK101	E.CAPACITOR	16V	100U	1	
C202		ECKF1H472KB	C.CAPACITOR	50V	4700P	1	
C203		ECEA1CSS471	E.CAPACITOR	16V	470U	1	
C204		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C205		ECEA1CSS102U	E.CAPACITOR	16V	1000U	1	
C206		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C207		ECEA1CSS471	E.CAPACITOR	16V	470U	1	
C208		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C209		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C210		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C211		ECEA1CSS102	E.CAPACITOR	16V	1000U	1	
C212		ECKD1H472	C.CAPACITOR	50V	4700P	1	
C213		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C214		ECEA1CS471	E.CAPACITOR	16V	470U	1	
C215,216		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	2	
C219		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C220		ECEA1CSS471	E.CAPACITOR	16V	470U	1	
C222		ECEA1CK101	E.CAPACITOR	16V	100U	1	
C223-246		ECKD1H102KB	C.CAPACITOR	50V	1000P	24	
C248-250		ECKD1H102KB	C.CAPACITOR	50V	1000P	3	
C251		ECCF1H560KC	C.CAPACITOR	50V	56P	1	

Ref.No.		Part No.	Part Name & Description			Pcs	Remarks
C252		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C253		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C254		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C255		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C256		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C257,258		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	2	
C259,260		ECEA1CK100	E.CAPACITOR	16V	10U	2	
C261-263		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	3	
C264		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C265,266		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	2	
C267		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C268,269		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	2	
C270		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C271		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C272		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C273		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C274,275		ECEA1CK100	E.CAPACITOR	16V	10U	2	
C276		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C277		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C278		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C279		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C280		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C281		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C282		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C283		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C284		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C285		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C286		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C287		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C288		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C289		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C290		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C291		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C292		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C293		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C294		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C303-306		ECKD1H102KB	C.CAPACITOR	50V	1000P	4	
C308,309		ECKF1H472KB	C.CAPACITOR	50V	4700P	2	
C310		ECCF1H101KC	C.CAPACITOR	50V	100P	1	
C311		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C312,313		ECKD1H102KB	C.CAPACITOR	50V	1000P	2	
C314		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C315		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C316		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C317		ECEA1CK100	E.CAPACITOR	16V	10U	1	
C318-322		ECKD1H102KB	C.CAPACITOR	50V	1000P	5	
C323		ECEA1HK010	E.CAPACITOR	50V	1U	1	
C324		ECKD1H102KB	C.CAPACITOR	50V	1000P	1	
C325		ECKD1H103ZF	C.CAPACITOR	50V	0.01U	1	
C327-340		ECKD1H102KB	C.CAPACITOR	50V	1000P	14	
			COILS				
L201		VLQ0090	COIL		30uH	1	
L202		VLQ0091	COIL		100uH	1	
L203,204		VLQ0090	COIL		30uH	2	
L205		VLQ0091	COIL		100uH	1	
L206		VLQ0090	COIL		30uH	1	
			CONNECTORS				
CN201		VEE3050	CONNECTOR		20P	1	
CN202,203		VEE3051	CONNECTOR		34P	2	
CN204-206		VEE3052	CONNECTOR		2P	3	
CN207		VEE3053	CONNECTOR		3P	1	
CN208		VEE3052	CONNECTOR		2P	1	
CN208,209		VEE3055	CONNECTOR		6P	2	
CN210		VEE3054	CONNECTOR		4P	1	
CN211		VEE3057	CONNECTOR		12P	1	
CN212		VEE3056	CONNECTOR		10P	1	
CN213		VEE3055	CONNECTOR		6P	1	
CN214		VEE3057	CONNECTOR		12P	1	
CN215		VEE3054	CONNECTOR		4P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R205		ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R206,207		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
R208,209		ERDS2TJ221	C.RESISTOR 1/4W 220	2	
R210,211		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	2	
R212-216		ERDS2TJ104	C.RESISTOR 1/4W 100K	5	
R217-219		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	3	
R220,221		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
R222-224		ERDS2TJ100	C.RESISTOR 1/4W 10	3	
			VARIABLE RESISTORS		
VR101,102		EVAKOAC10B14	V.RESISTOR	2	
			CAPACITORS		
C101-103		ECEA1CKA101	E.CAPACITOR 16V 100U	3	
C104		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
C105-107		ECEA1CKA101	E.CAPACITOR 16V 100U	3	
C108		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
C109		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C110		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
C111		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C112		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
C113		ECKD1H102KB	C.CAPACITOR 50V 1000P	1	
C114		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C115		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
C116		ECKD1H102KB	C.CAPACITOR 50V 1000P	1	
C117		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C118,119		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	2	
C120,121		ECEA1ASS471	E.CAPACITOR 10V 470U	2	
C122		ECKD1H103ZF	C.CAPACITOR 50V 0.01U	1	
			SWITCHES		
S101		VSP0199	SWITCH	1	<R> ON LINE
S102		VSP0193	SWITCH	1	<R> PLAY
S103		VSP0194	SWITCH	1	<R> REC
S104		VSP0230	SWITCH	1	<R> PAUSE/STILL
S105		VSP0202	SWITCH	1	<R> ASSEMBLE
S106		VSP0203	SWITCH	1	<R> VIDEO/HD
S107,108		VSP0200	SWITCH	2	<R> CH1, CH2
S109		VSP0198	SWITCH	1	<R> EDIT
S110		VSP0193	SWITCH	1	<R> PLAY
S111		VSP0194	SWITCH	1	<R> REC
S112		VSP0230	SWITCH	1	<R> PAUSE/STILL
S113		VSP0196	SWITCH	1	<R> REW
S114		VSP0229	SWITCH	1	<R> STOP
S115		VSP0196	SWITCH	1	<R> FF
S116,117		VSP0233	SWITCH	2	<R> TRIM-, TRIM+
S118		VSP0232	SWITCH	1	<R> RESET
S119,120		VSP0233	SWITCH	2	<R> TRIM-, TRIM+
S121		VSP0196	SWITCH	1	<R> REW
S122		VSP0229	SWITCH	1	<R> STOP
S123		VSP0196	SWITCH	1	<R> FF
S124-126		VSP0198	SWITCH	3	<R> SEARCH, OUT, IN
S127		VSP0232	SWITCH	1	<R> SET
S128-130		VSP0198	SWITCH	3	<R> IN, OUT, SEARCH
S131,132		VSP0199	SWITCH	2	<R> RETURN, GO TO
S133		VSP0198	SWITCH	1	<R> PREVIEW
S134		VSP0204	SWITCH	1	<R> AUTO EDIT
S135		VSP0198	SWITCH	1	<R> REVIEW
S136		VSP0215	SWITCH	1	<R> EDIT STOP
			CONNECTORS		
CN101		VEE3053	CONNECTOR 3P	1	
CN102		VEE3049	CONNECTOR 11P	1	
CN104,105		VEE3047	CONNECTOR 8P	2	
CN106		VEE3048	CONNECTOR 10P	1	
CN108		VEE3053	CONNECTOR 3P	1	
CN110		VEE3040	CONNECTOR 4P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
CN111		VEE3043	CONNECTOR 12P	1	
CN112		VEE3042	CONNECTOR 10P	1	
CN113		VEE3041	CONNECTOR 6P	1	
CN114		VEE3043	CONNECTOR 12P	1	
CN115		VEE3040	CONNECTOR 4P	1	
CN122		VEE3049	CONNECTOR 11P	1	
CN124,125		VEE3047	CONNECTOR 8P	2	
CN126		VEE3048	CONNECTOR 10P	1	
			MISCELLANEOUS		
E10		LN526GA	DISPLAY BLOCK	8	<R>
E8		KL03	LED SPACER	4	FOR LED101,104 105,108
E9		KL04	LED SPACER	4	FOR LED101,104 105,108
	■	VEP20218B	34P PIN CONNECTOR C.B.A.		<R>(NLA)
CN302,303		VJP62	34 PIN CONNECTOR	1	
CN203,202		VEE3051	FLEXIBLE JUMPER (36P)	1	
	■	VEP20219B	20 PIN CONNECTOR C.B.A.		<R>(NLA)
CN301		VJS1265	20 PIN CONNECTOR	1	
CN201		VEE3050	FLEXIBLE JUMPER (20P)	1	